

FIG. 1

Patented Sep. 22, 2009

10

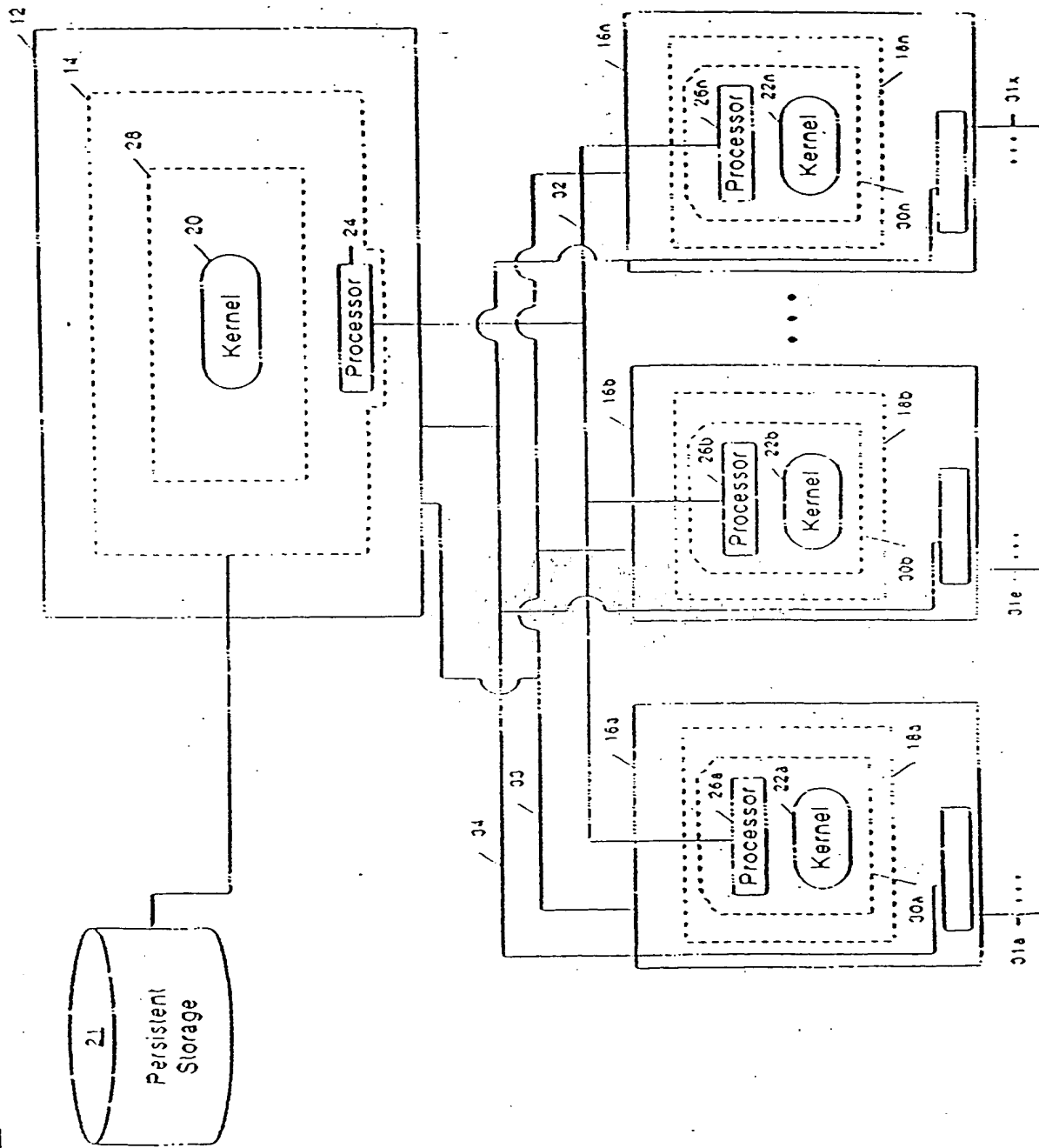


Fig. 2a

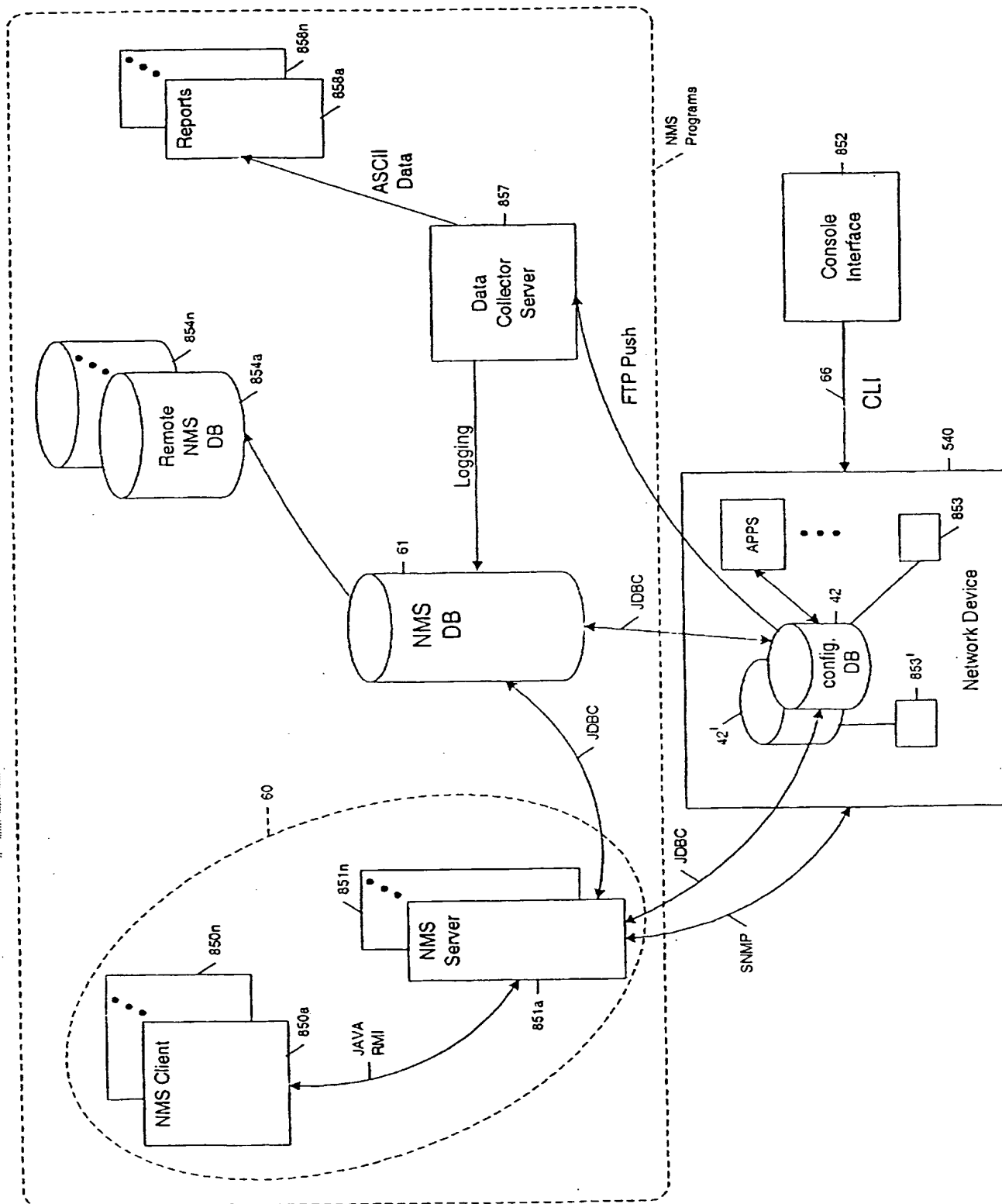
[illegible]

FIG. 2b

Fig. 2b

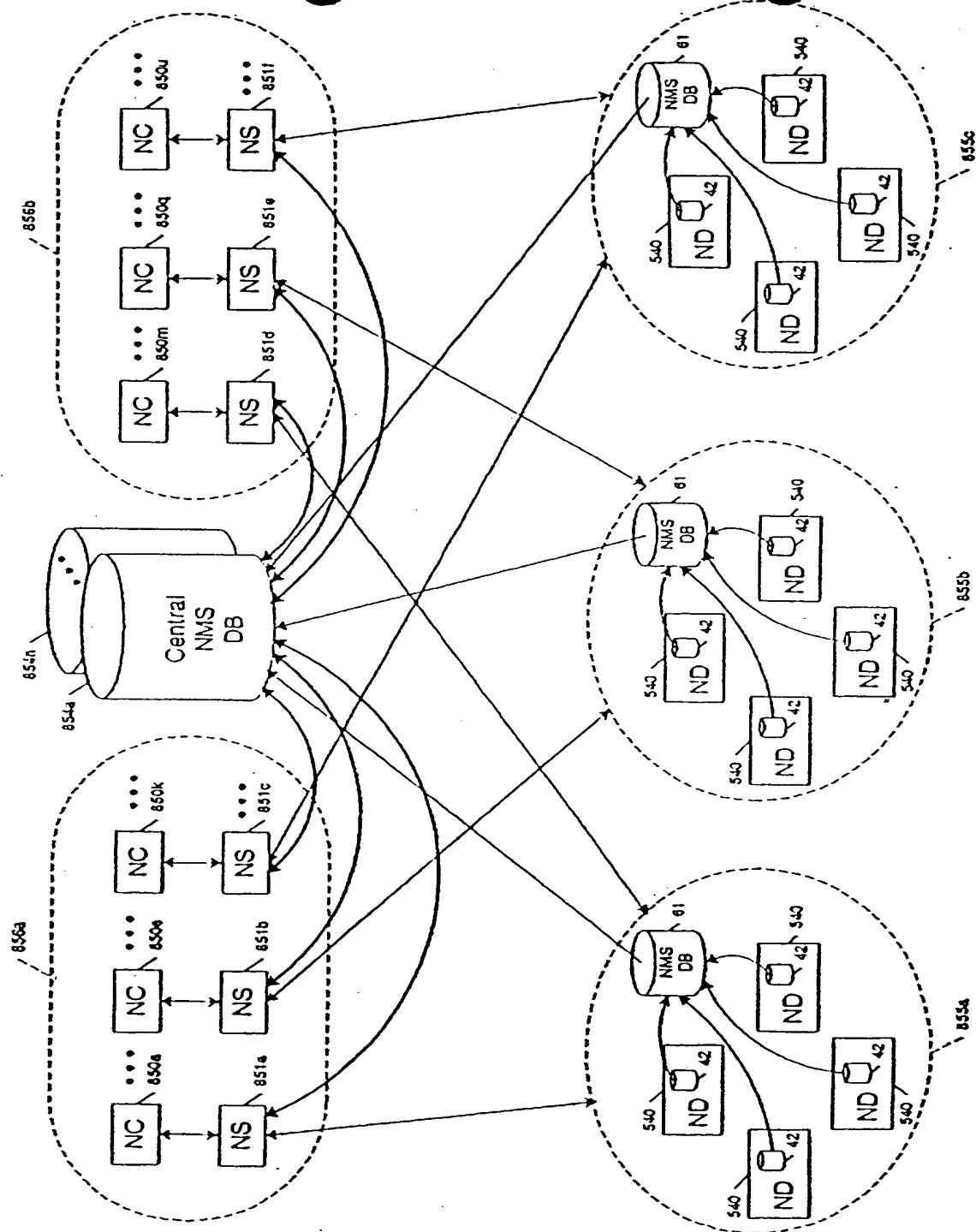


FIG. 3a

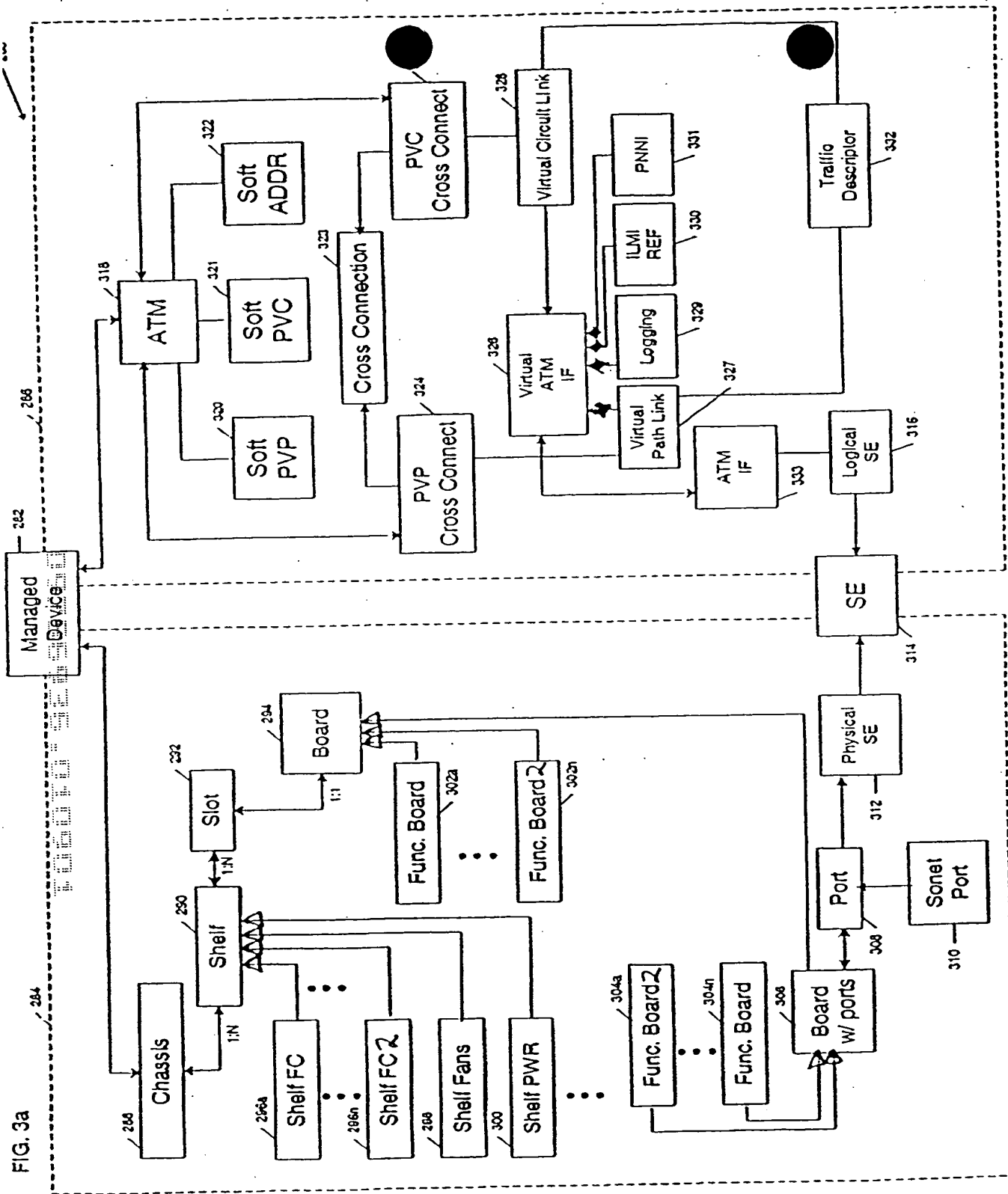




FIG. 3b

FIG. 3b

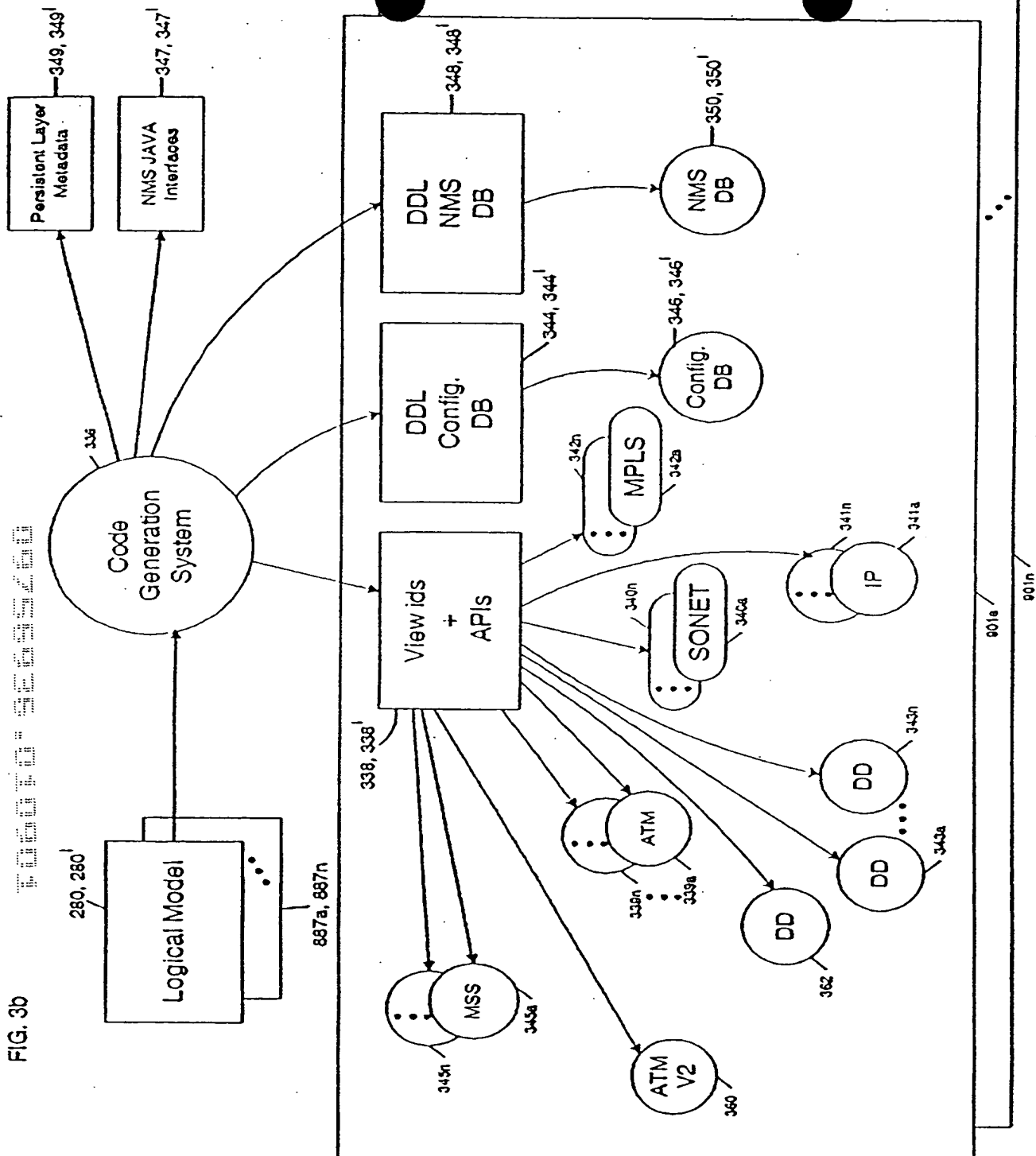


FIG. 3C

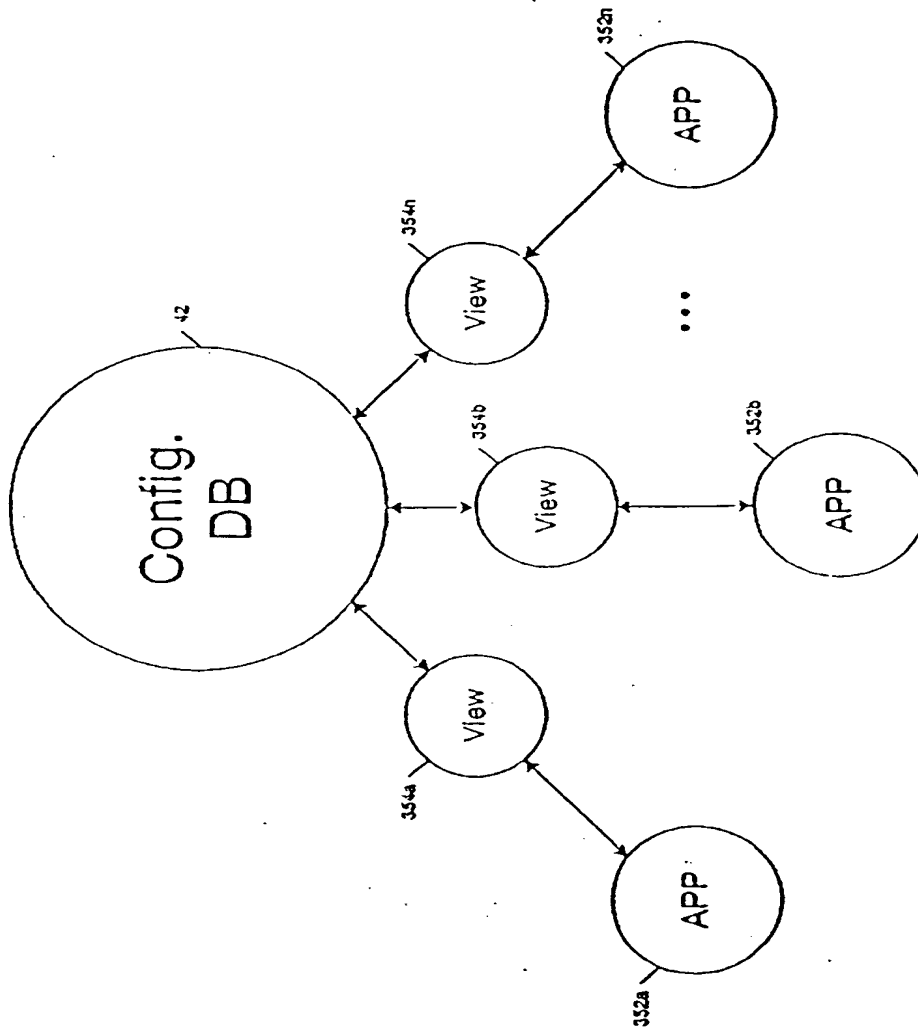
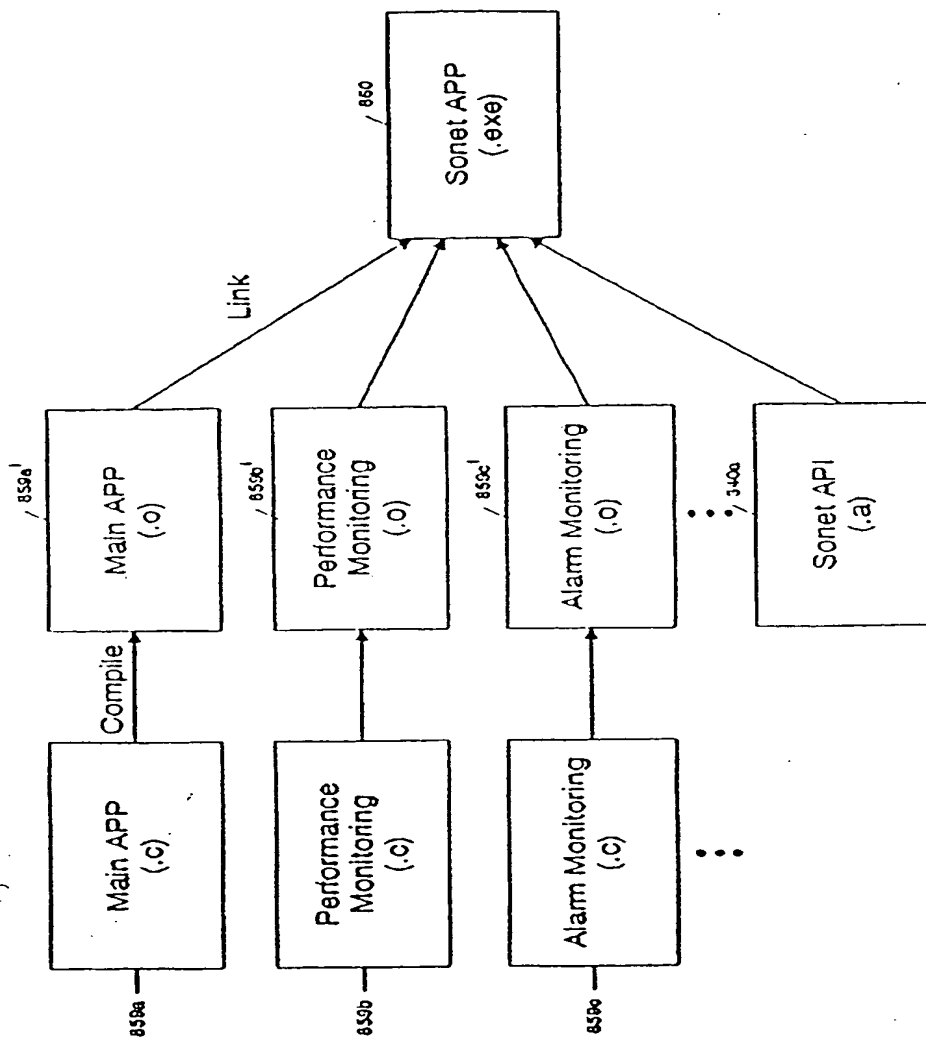


Fig. 3d

FIG. 3d

# Build SONET Application



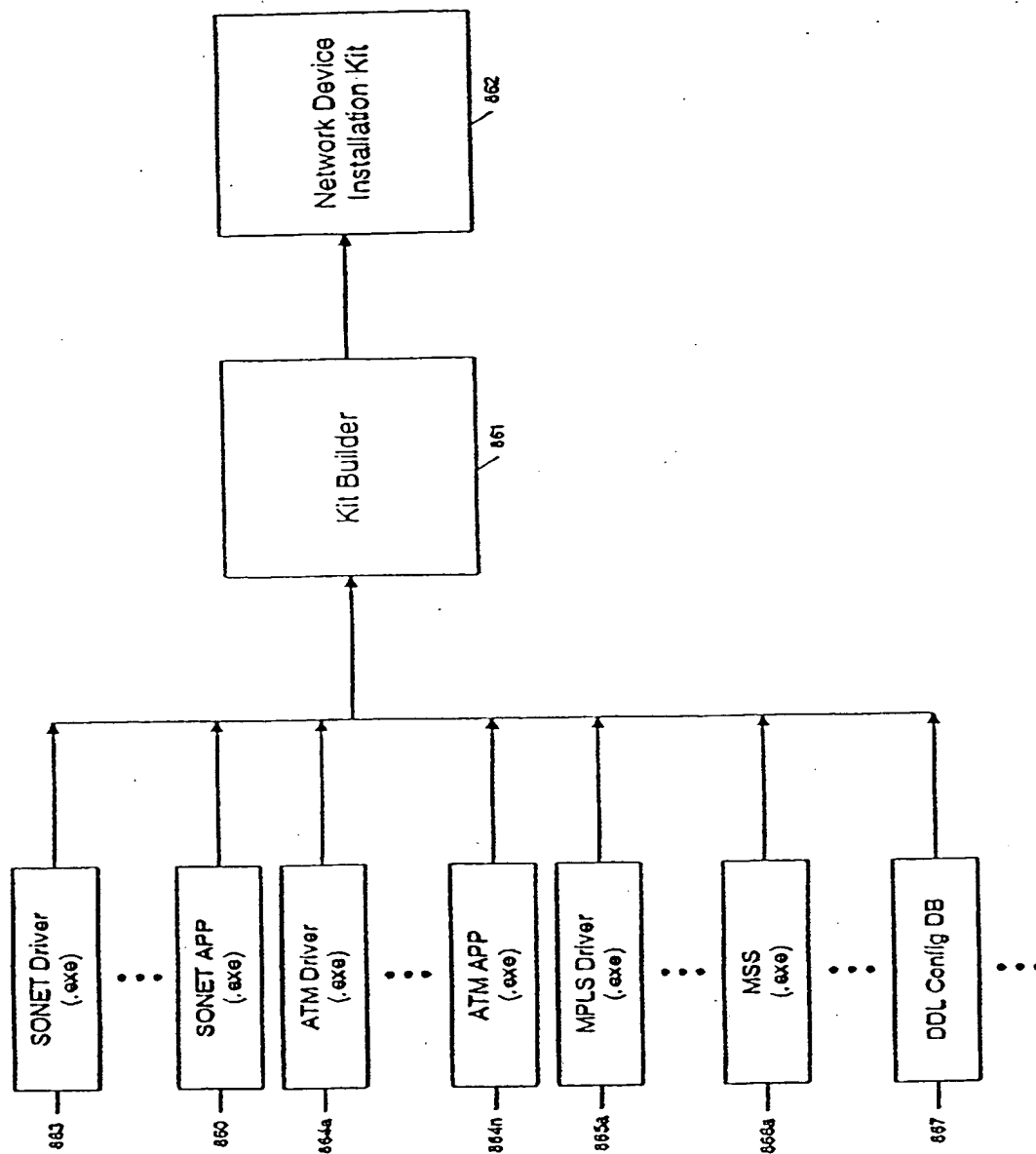


Fig. 34

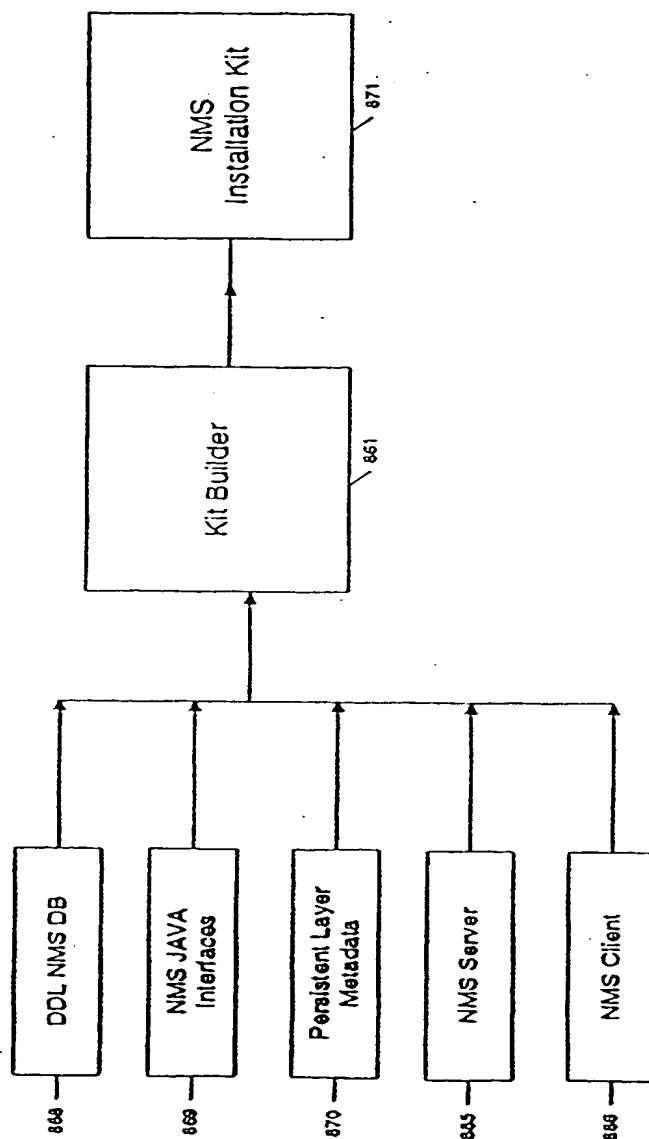


Fig. 3g

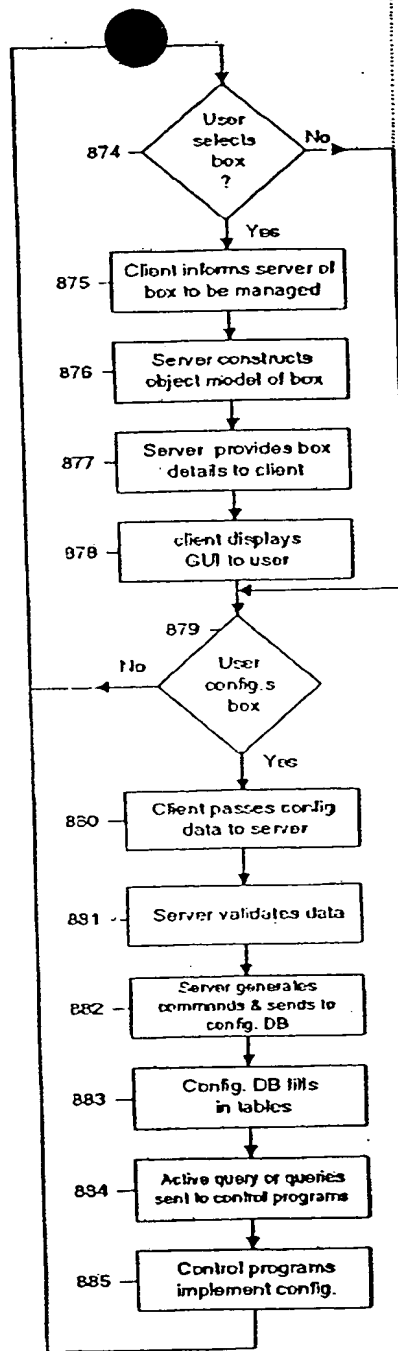
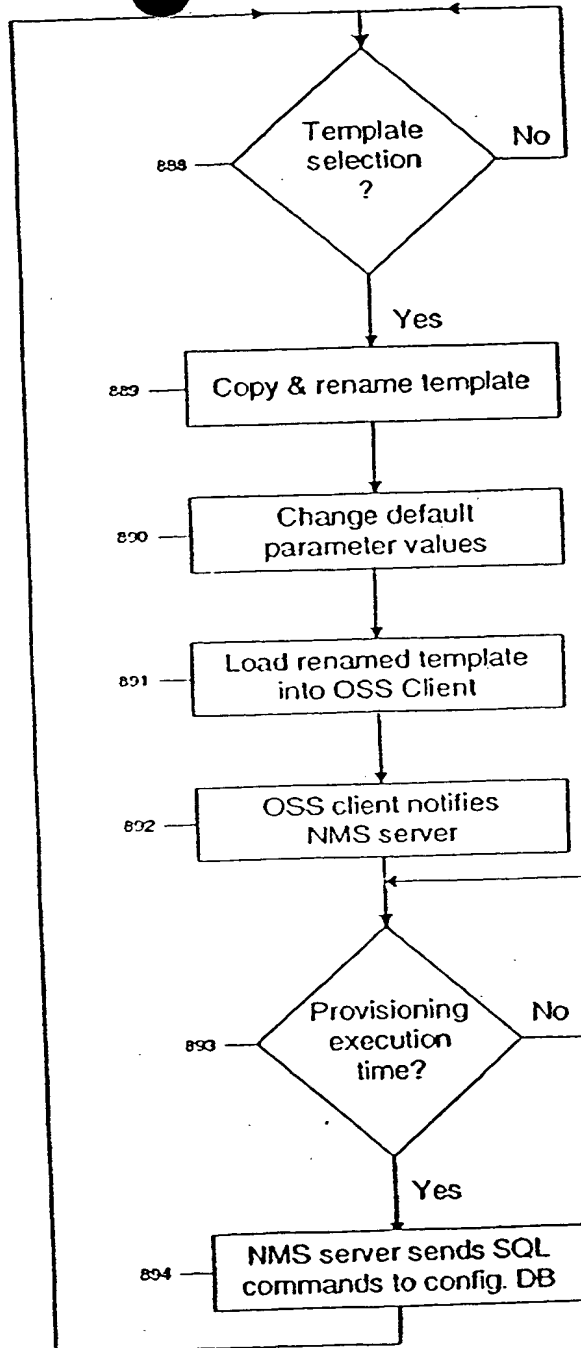


Fig. 3h



00756936:040904

```

Command Prompt [2] - enetc5
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11>
Enetc11> help
Commands are:

bye
close
execute
help
load
manage
open
quit
showCurrent
showTemplate
set
status
writeCurrent
writeTemplate
Enetc11>
Enetc11>
Enetc11> showCurrent SPATH
AIMIfName=AIMIf11/1/1
Concatenated=false
Name=Path11/1/1
Operant=SPATH
Operator=Create
PortID=1
Position=1
Service=AIM
ShelfID=11
SlotID=1
Type=Terminated
Version=UI_1_0_0
Width=STS3
Enetc11>
Enetc11>
Enetc11>
Enetc11> showTemplate SPATH
AIMIfName=<String>[TerminatedOnly]
Concatenated=<true/false>
Name=<String>
Operant=SPATH
Operator=<Create/Replace/Update/Delete>
PortID=<Integer><1-16>
Position=<Integer>
Service=<None/AIM>
ShelfID=<11(top),13(bottom)>
SlotID=<Integer><1-8>
Type=<Switched/Terminated>
Version=UI_1_0_0
Width=<STS1/STS3/STS12/STS48>
Enetc11>
Enetc11>
Enetc11> status
Not currently connected to server
Supporting templates! CONTROL, PUC, SPATH, SPUC, ID, and UAIF
Enetc11>

```

Fig.3i



Fig. 3j

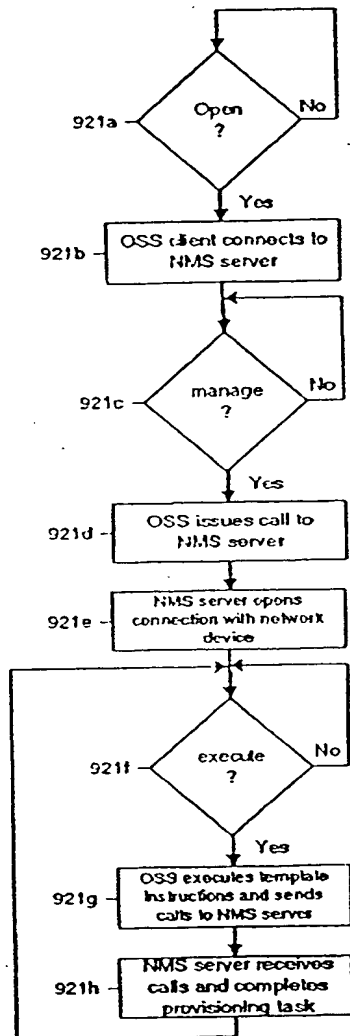


Fig 3K

```
Command Prompt (2) - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli> showCurrent CONTROL
Input=Q:\nnc\con\equipecon\nnc\util\enetcli
Interactive=false
Operant=CONTROL
Operator=Manage
Output=Q:\nnc\con\equipecon\nnc\util\enetcli
Password=None
System=192.168.9.202
User=None
Version=U1_1_0_0
Server=localhost
Enetcli>
```

922  
923  
923A  
923B  
923C  
923D  
923E  
923F  
923G  
923H  
923I

00756936 0400004

← 924 BATCH.

Version=V1\_1\_0\_0

Operator=Execute

Version=V1\_1\_0\_0

-Task1=execute-SPATH

-Task2=execute-PVC

-Task3=execute-SPVC

```
Task4=load-SPVC-spycl
```

-Task5=execute-SPVC

-Task6=load-SPVC-spvc2

-Task7=exccute-SPVC

9243 - Task50=sct-SPATH-PortID-3

924h-Task51=execute-SPATH

924i—Task52=set-SPATH-SlotID-2

Q 24. — Task 53=execute-SPATH

925

Operant=BATCH  
Operator=Execute  
Version=V1\_1\_0\_0

- 925a — Task1=execute-CONTROL
- 925b — Task2=execute-SPATH
- 925c — Task3=set-SPATH-PortID-3
- 925d — Task4=execute-SPATH
- 925e — Task61=set-CONTROL-System-192.168.9.201
- 925f — Task62=execute-CONTROL
- 925g — Task63=execute-SPATH
- 925h — Task108=close
- 925i — Task109=set-CONTROL-Server-Server1
- 925j — Task110=set-CONTROL-System-192.168.8.200
- 925k — Task111=execute-CONTROL
- 925l — Task112=execute-SPATH

Fig. 3M

895

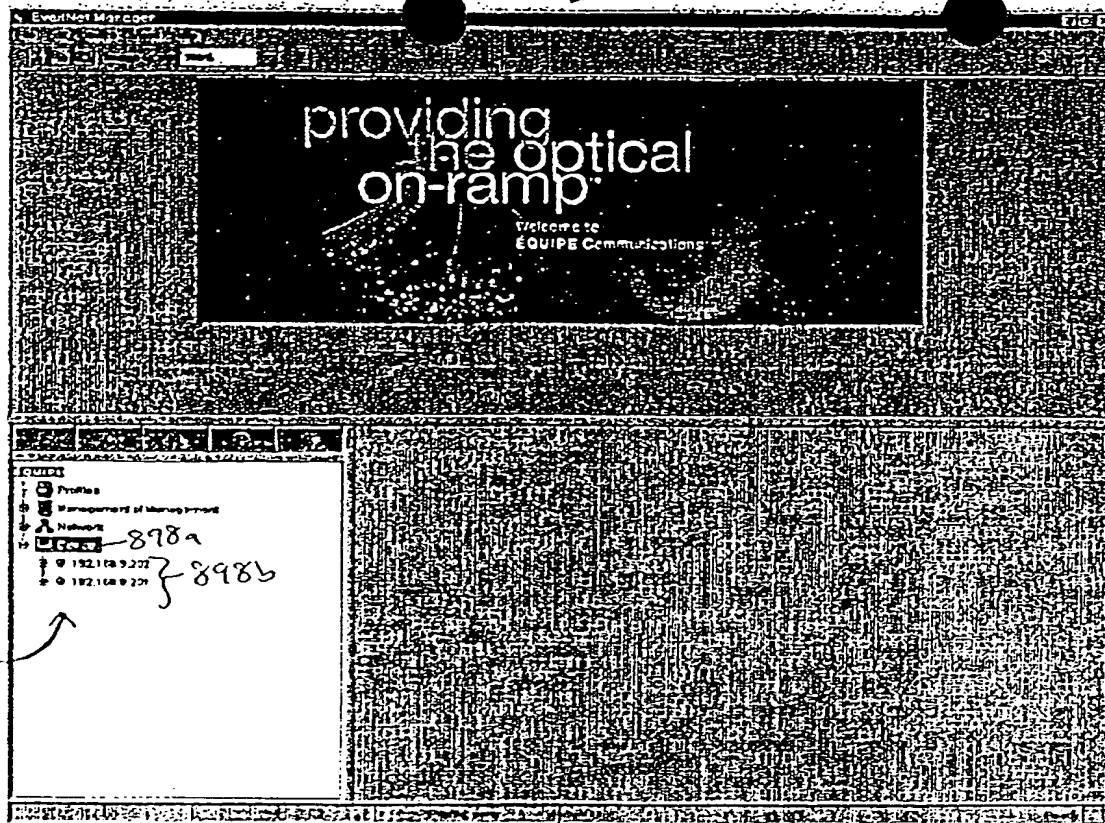


Fig. 4a

895

898a  
898b  
898c

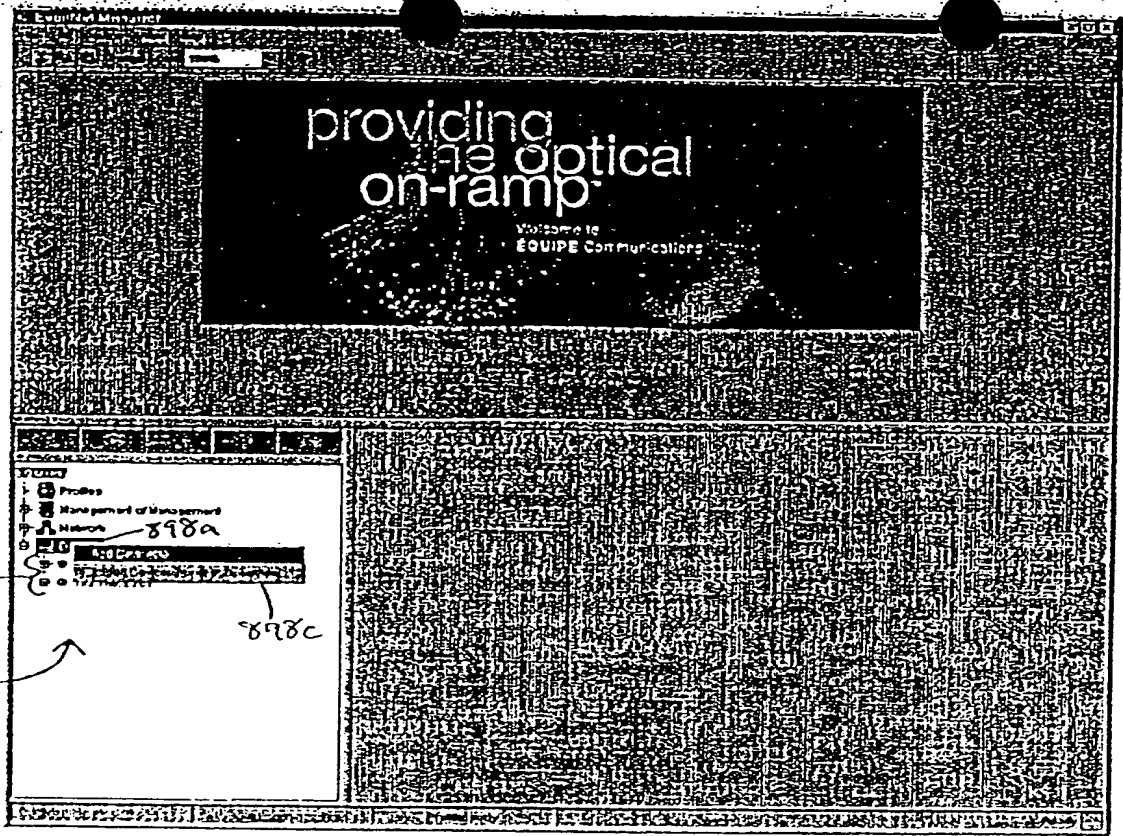


Fig. 4b

Fig. 4c

The screenshot shows a Windows-style dialog box titled "AddDeleteDeviceDlg". At the top, there is a text input field containing the IP address "192.168.9.203". Below this is a checkbox that is checked. Underneath the checkbox is a list box. A label "898d" with a pointer line indicates the checkbox area.

Fig. 4d

The screenshot shows a similar dialog box titled "AddDeleteDeviceDlg". It features a text input field, a checked checkbox, and a list box containing one item, "192.168.9.203". Several labels with pointer lines identify specific UI elements: "898d" points to the checkbox, "898g" points to the list box, "898j" points to the first button in the bottom group box, "898i" points to the second button, and "898h" points to the third button.

895

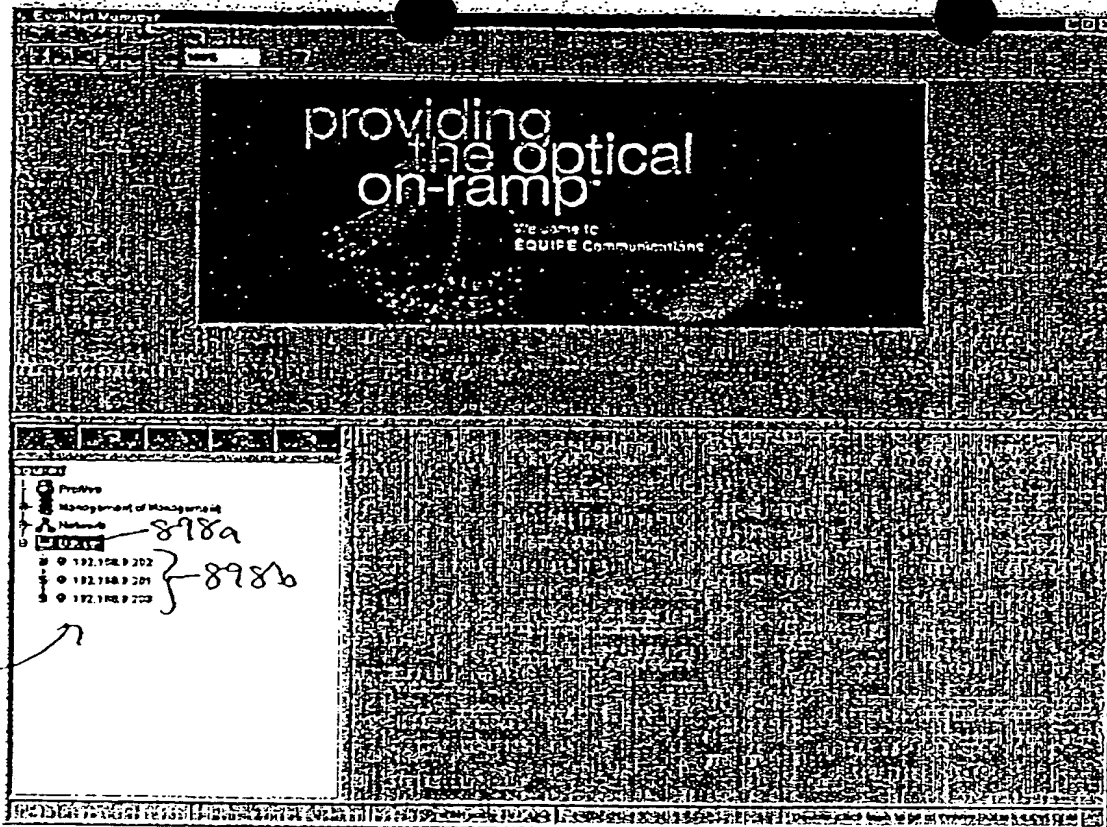


Fig. 4e



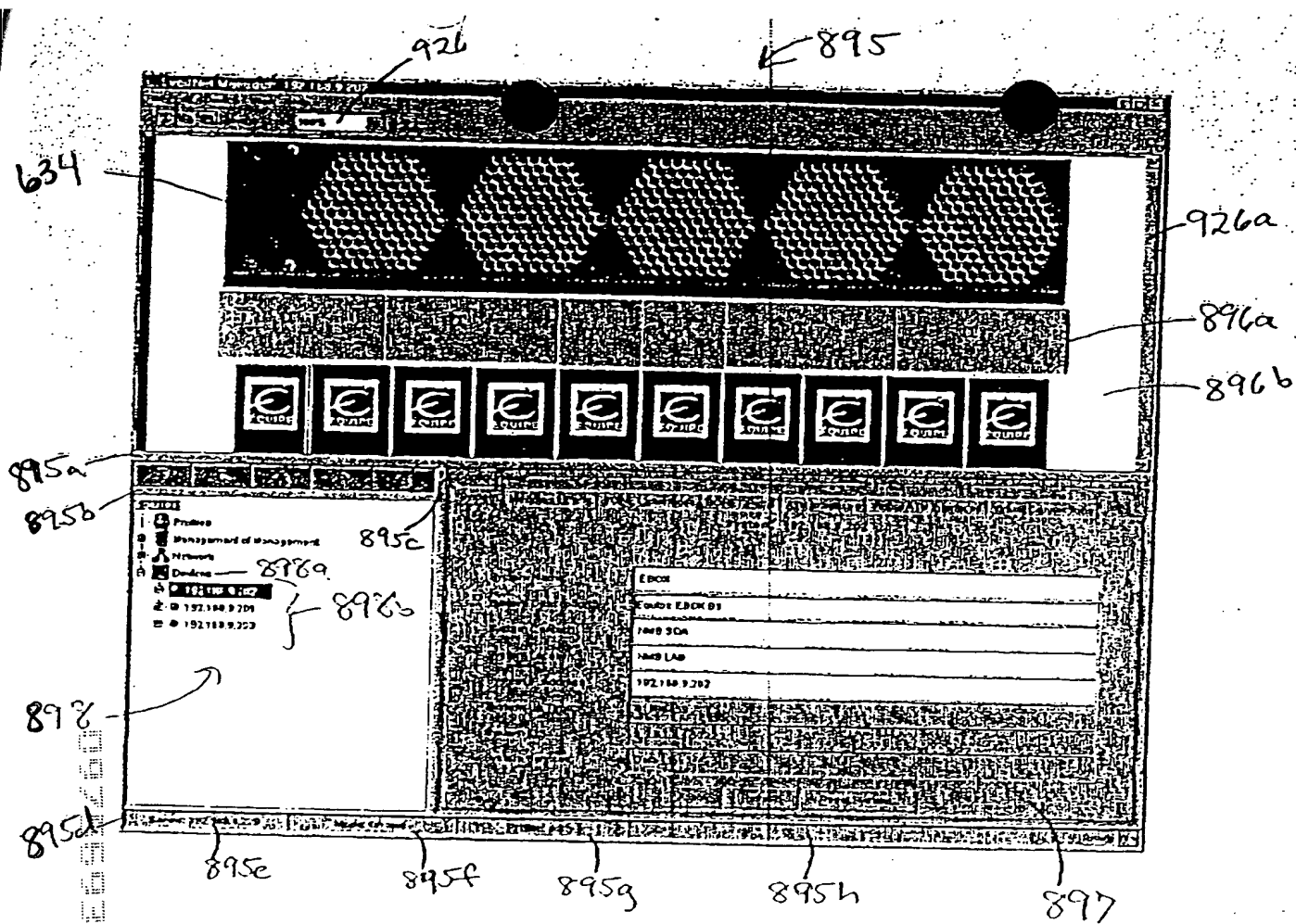
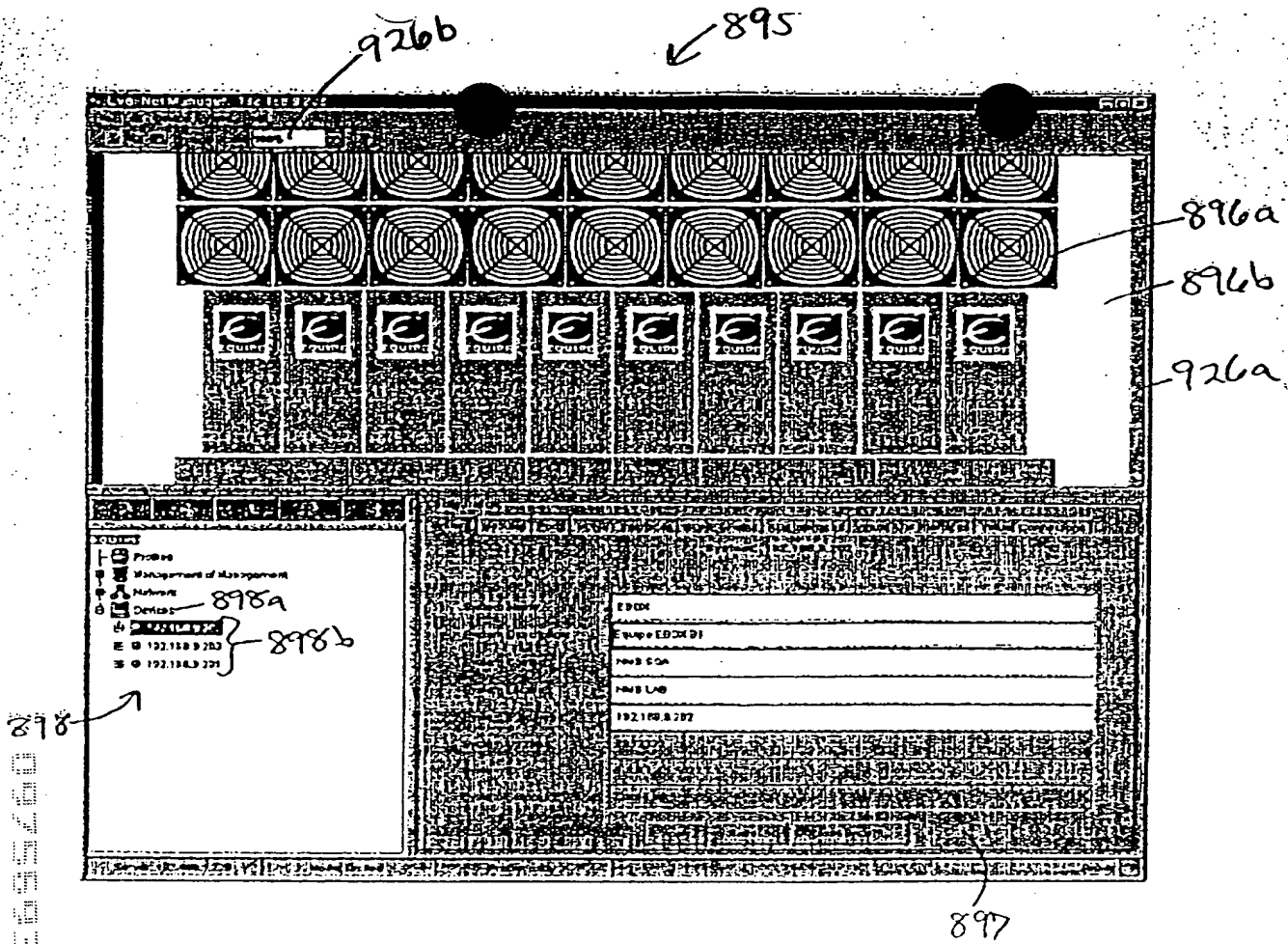


Fig. 4f



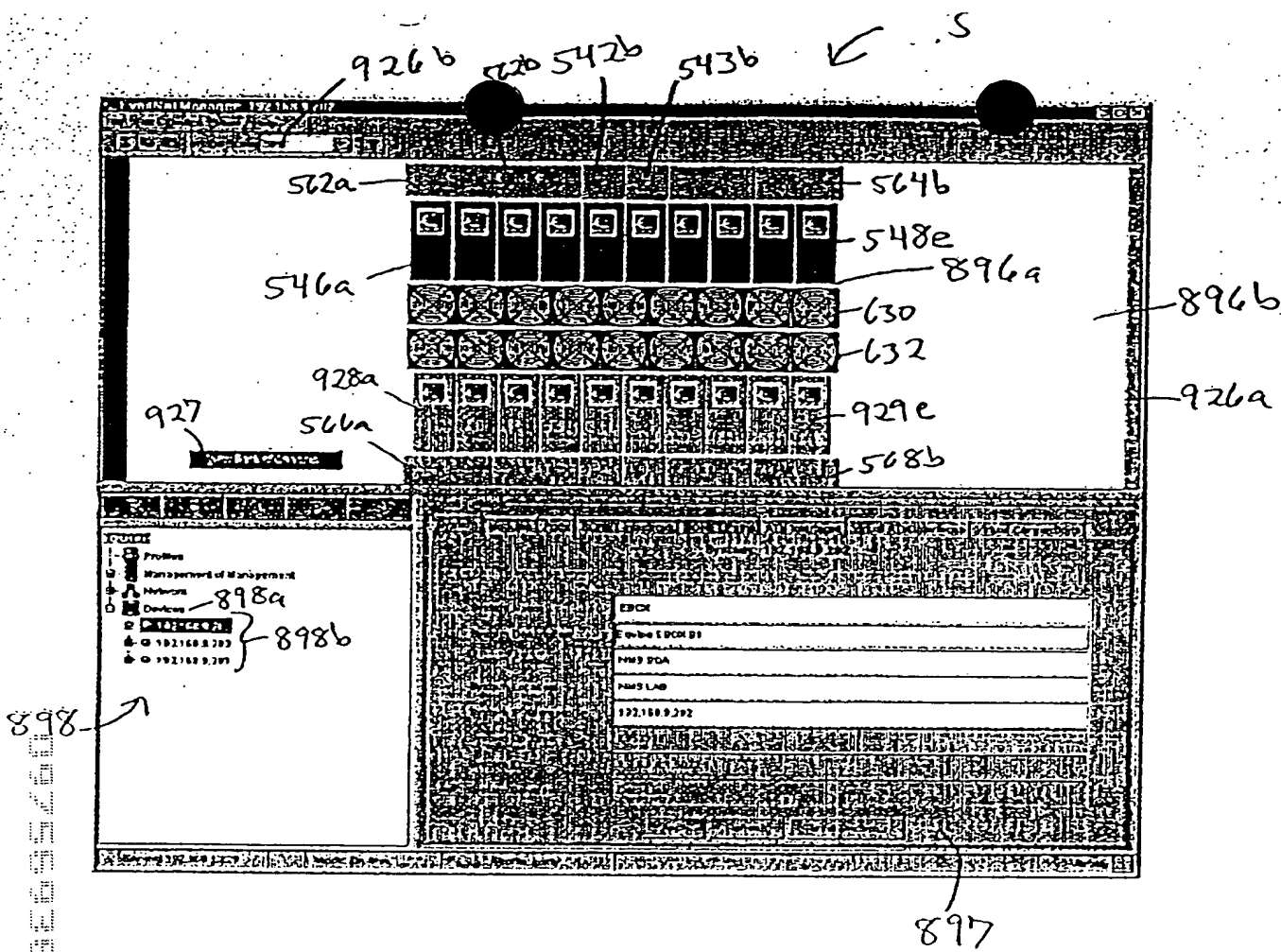


Fig. 4h

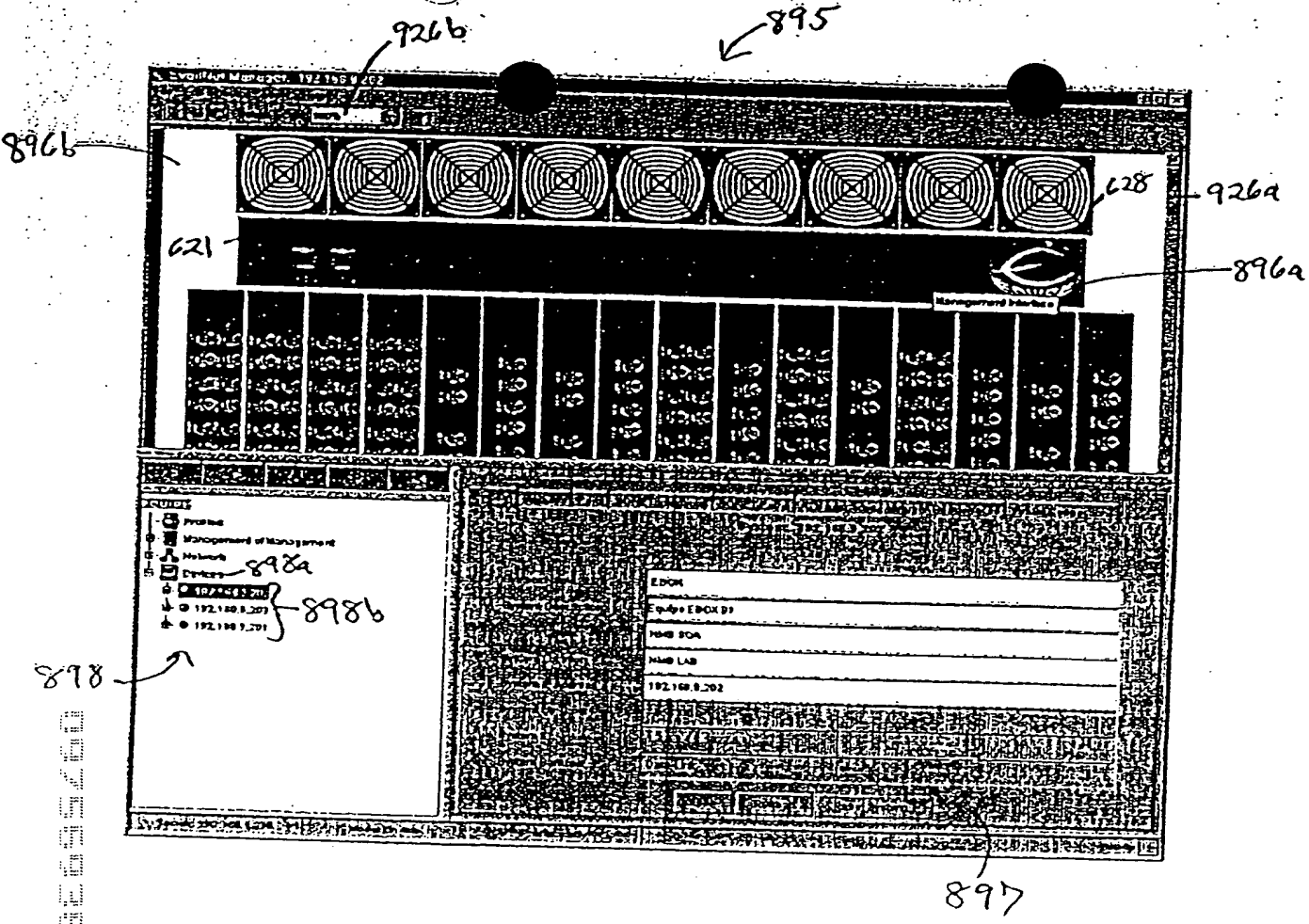


Fig. 4i

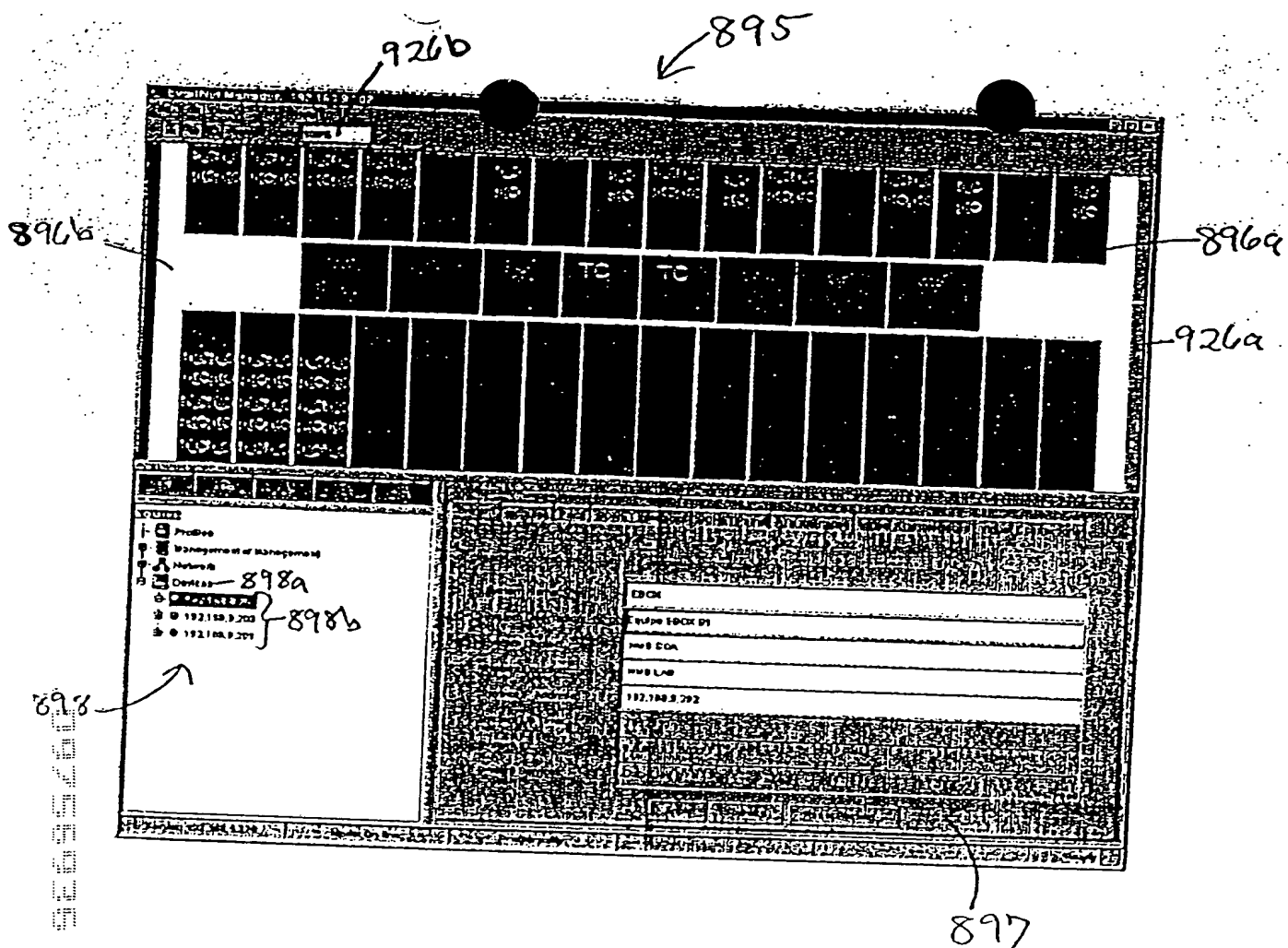


Fig. 4j

895

926b

896b

896a

626

926a

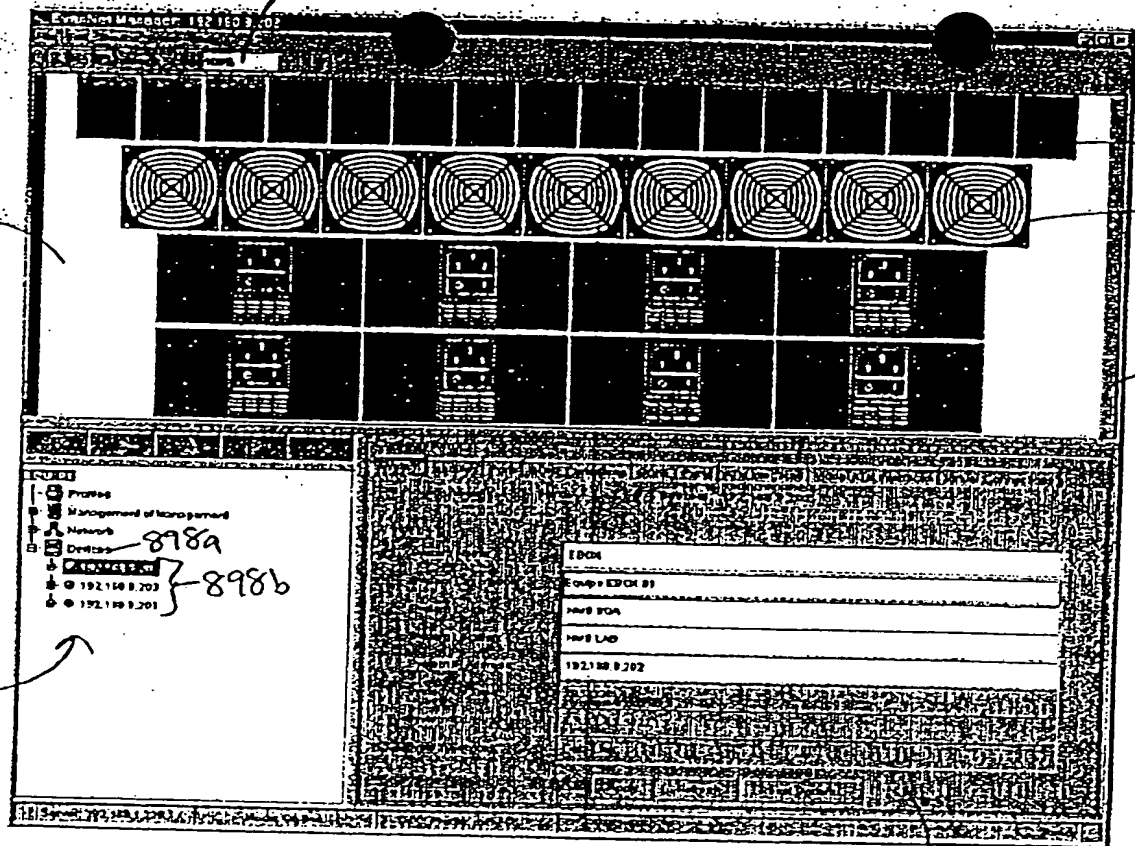
898

898a

898b

897

Fig. 4K



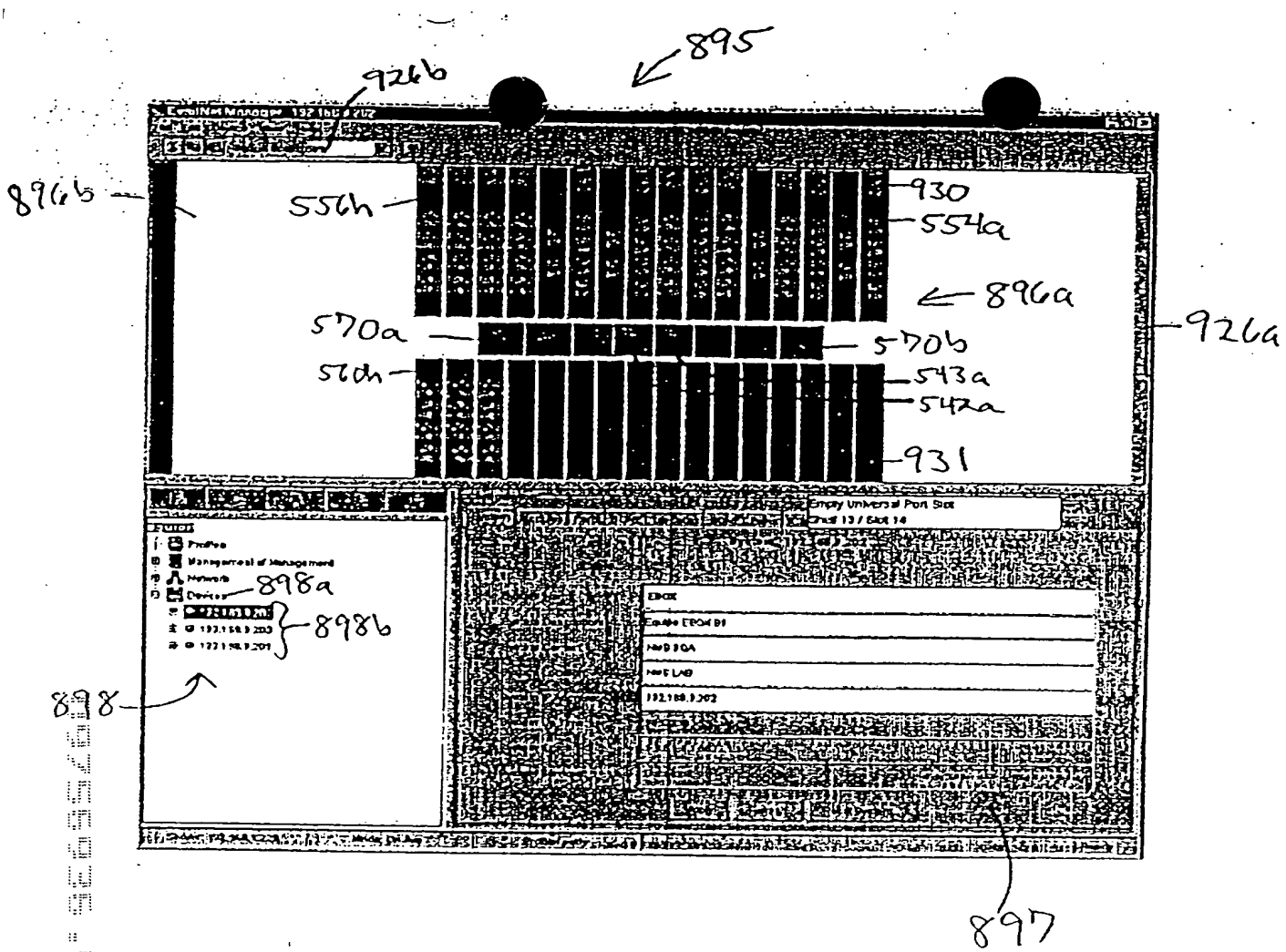


Fig. 4L

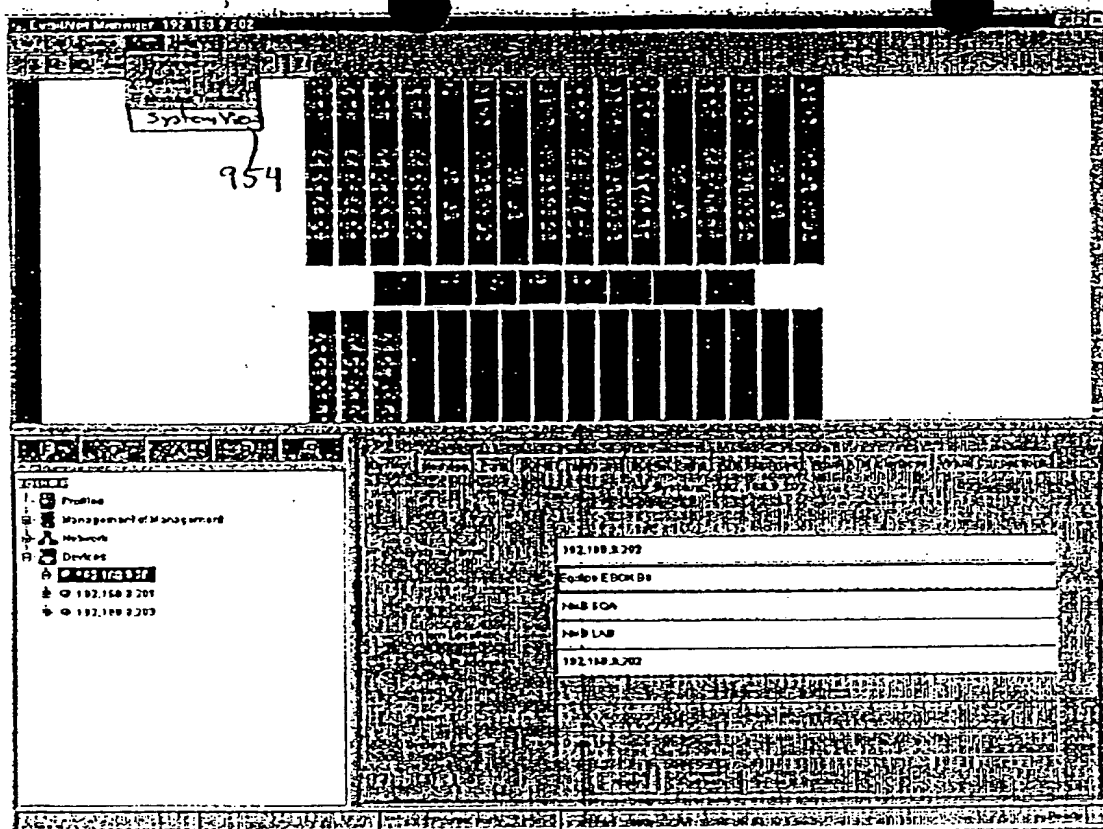
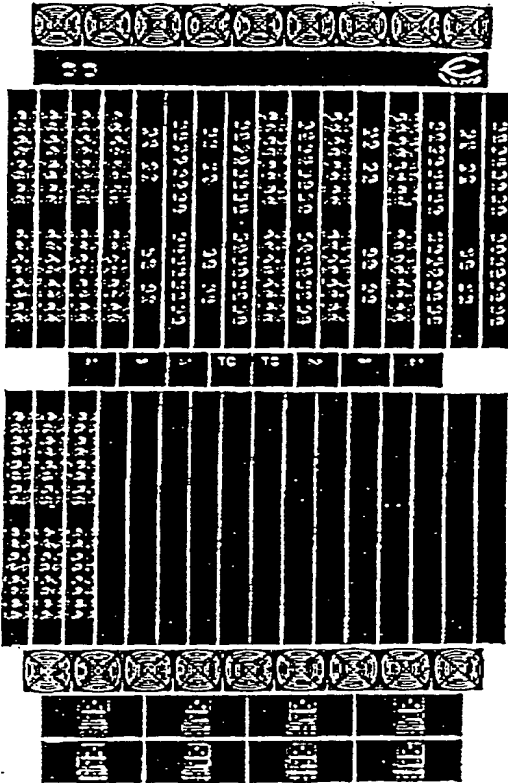
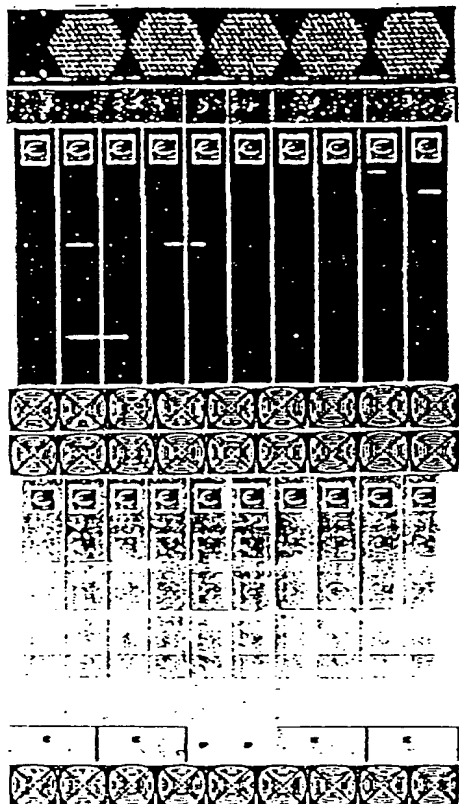


Fig. 4m

[illegible]



955



955a

955b

Fig. 4n

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00756936 040001

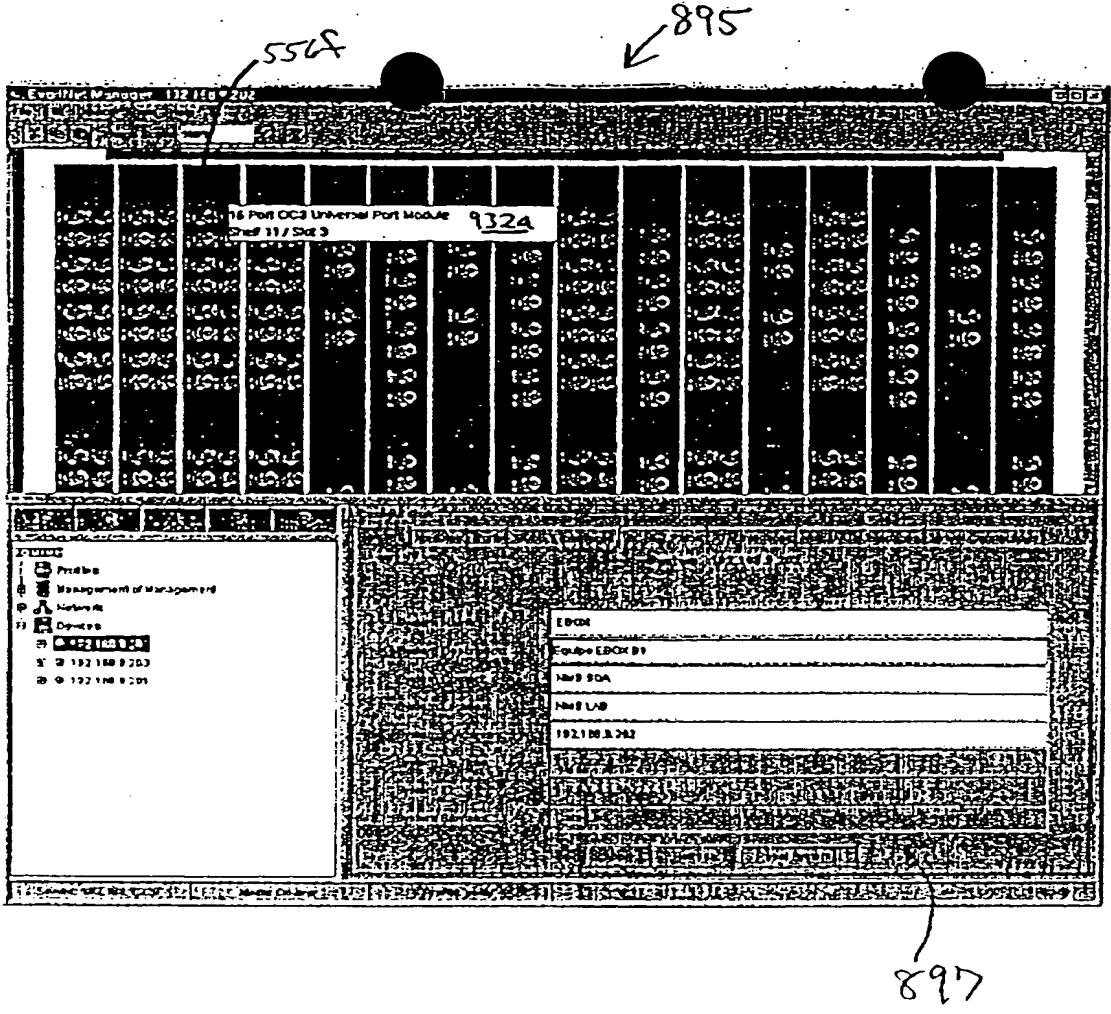
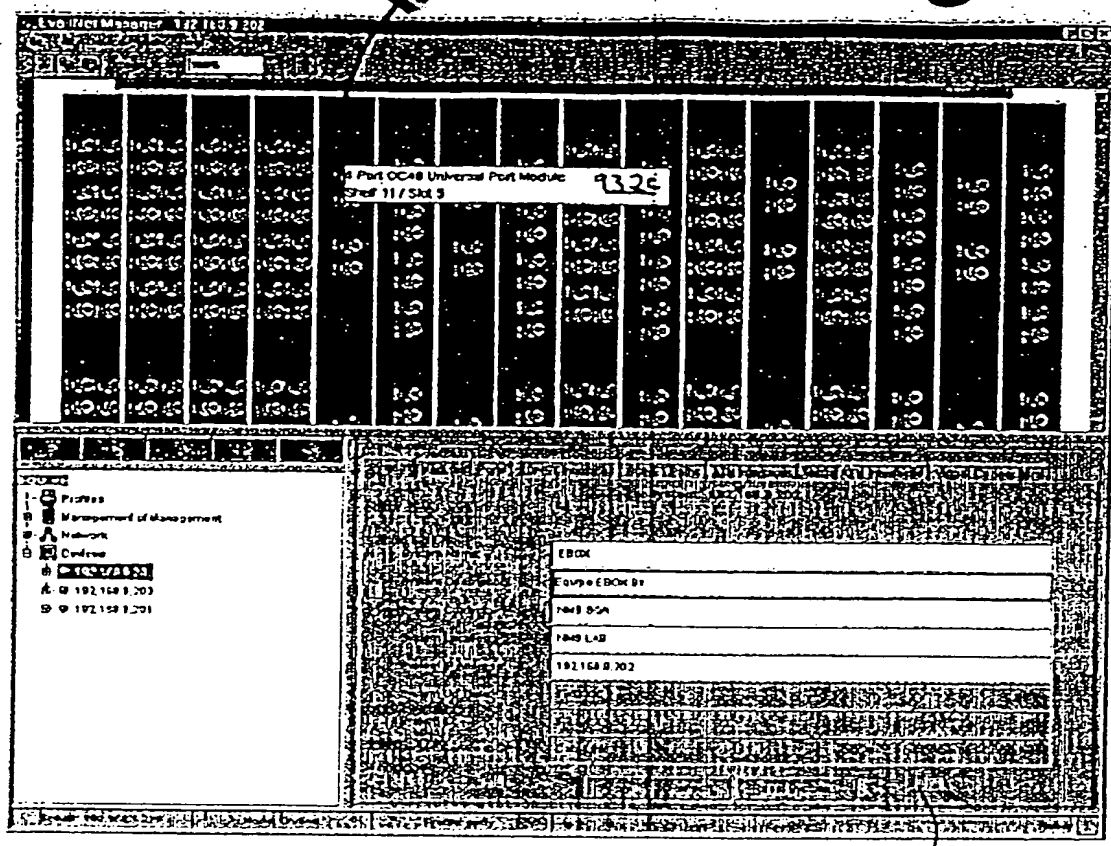


Fig.40

895

[illegible]

00755035 040004



897

Fig. 48

84

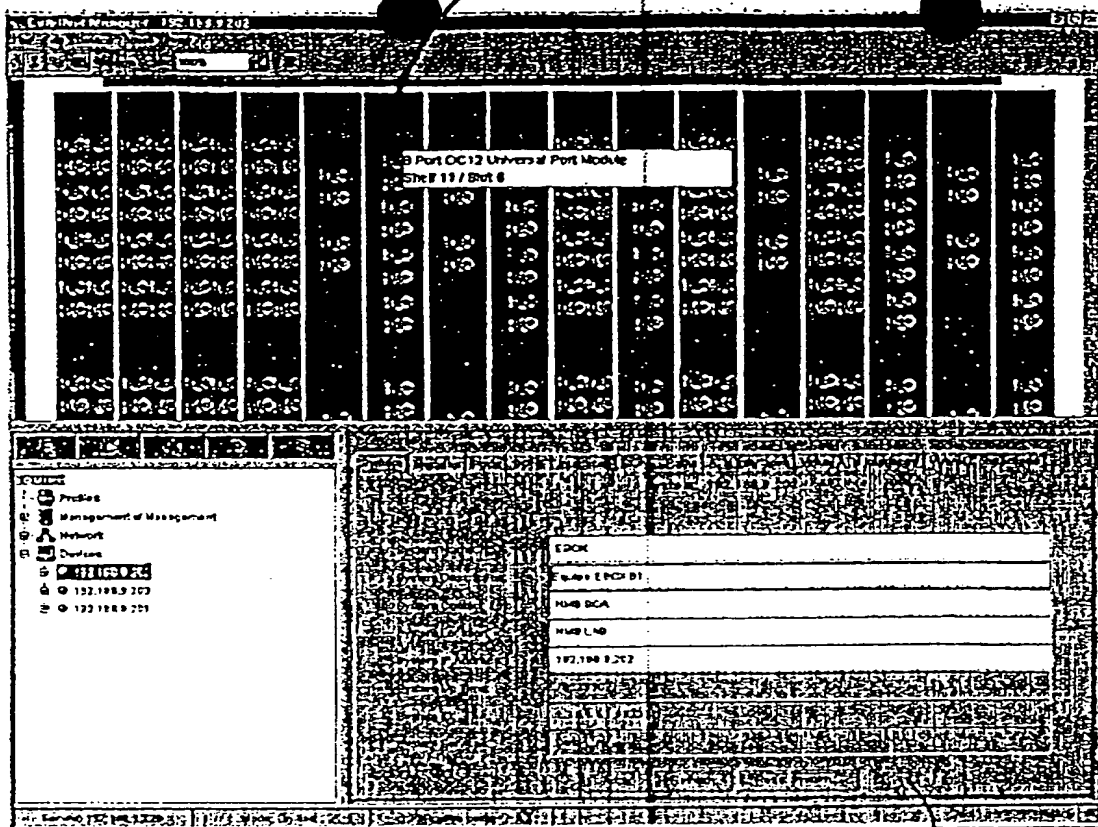


Fig. 47

00756036 040001

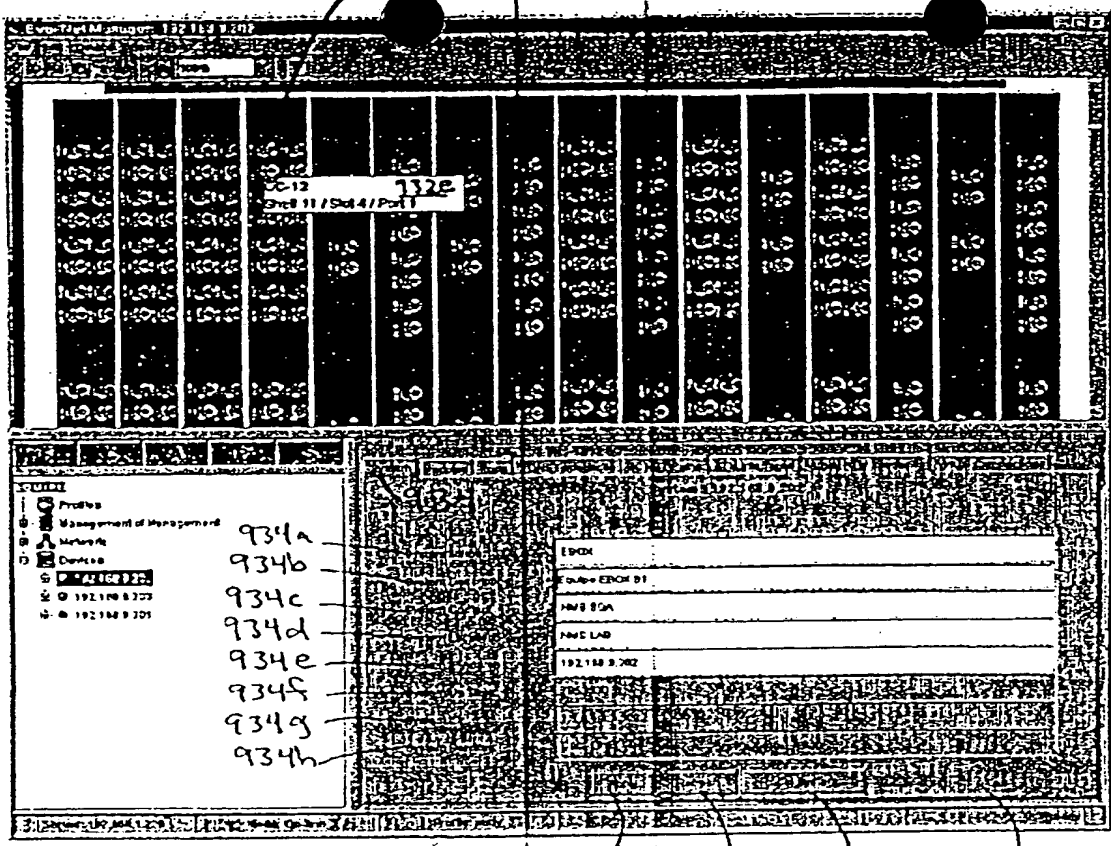
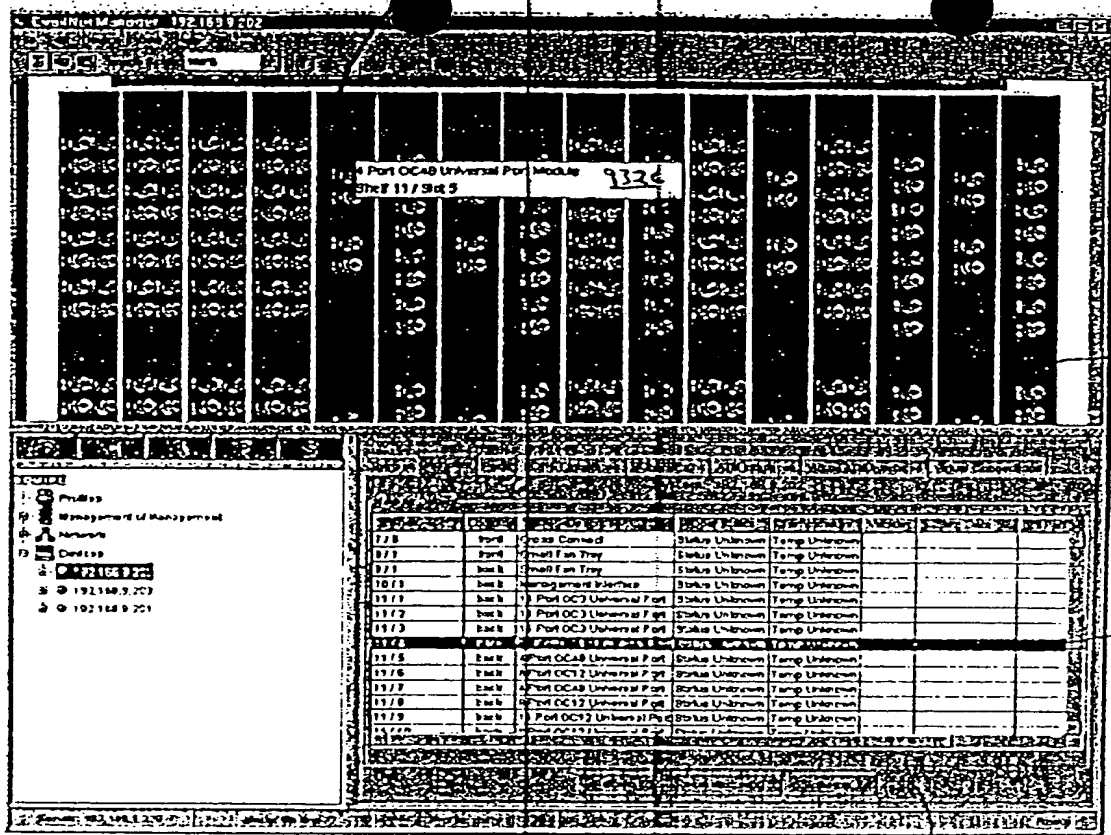


Fig. 4s

5560

895



896a

937

897

Fig. 4+

09756936 040904

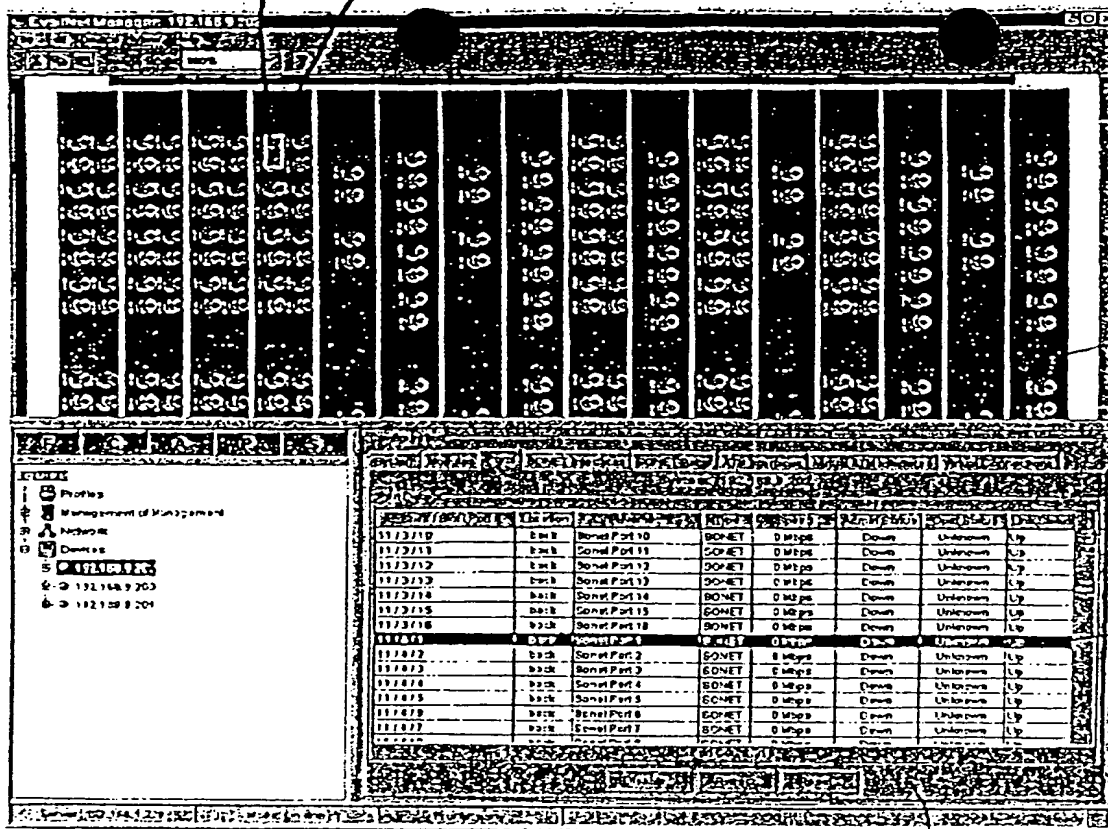
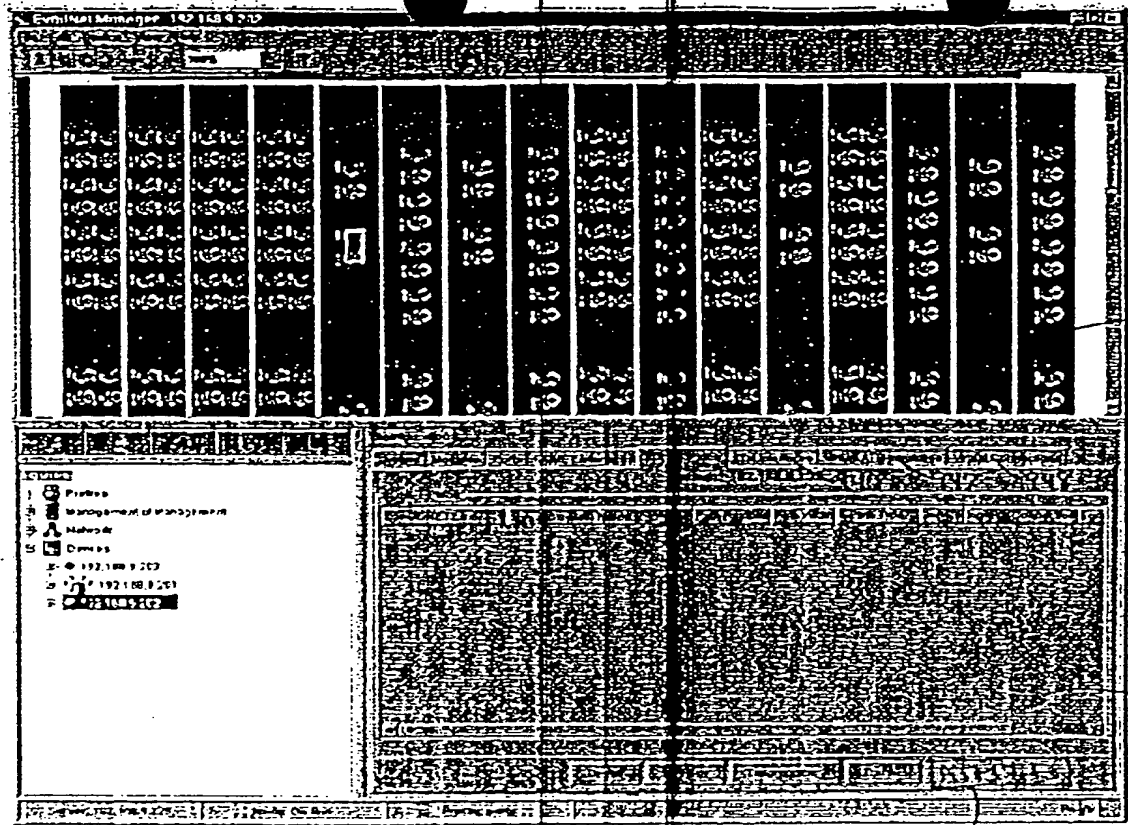


Fig. 4u



[illegible]

895



896a

897

942c

Fig. 4w

00755936-040004

q588  
q58c

q58

q58a

895

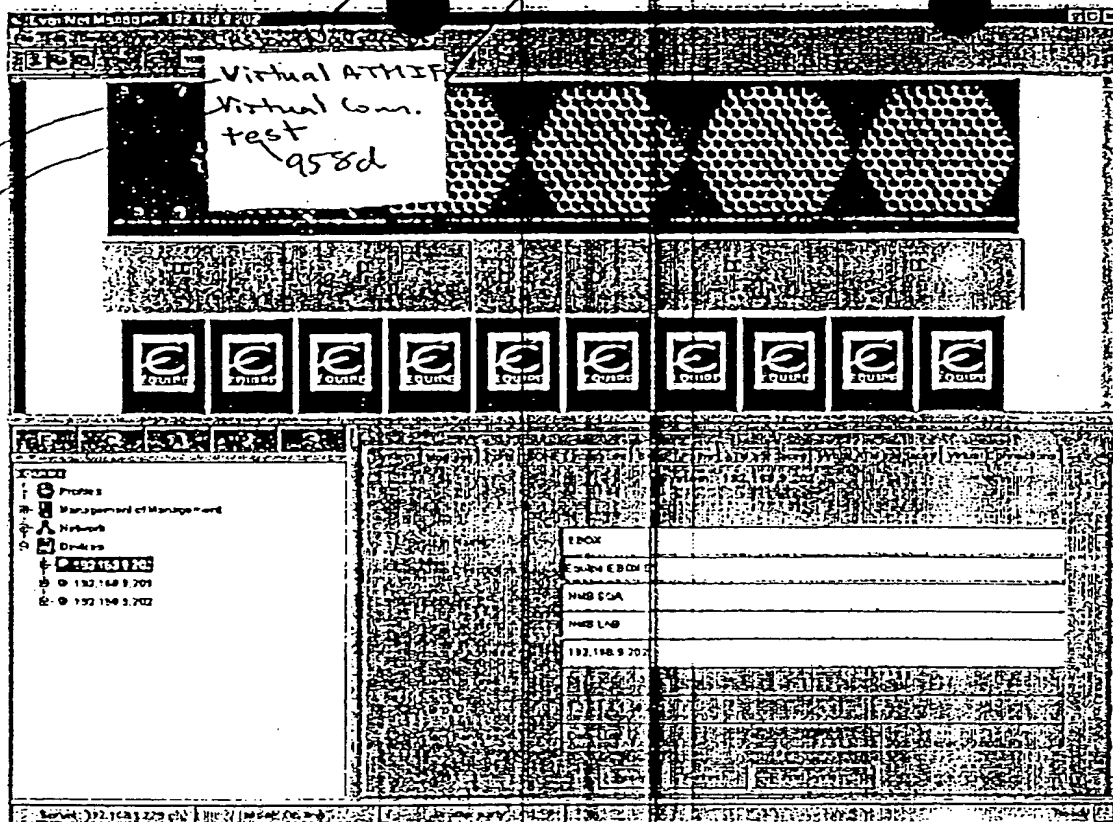


Fig. 4x

896a

895

960

960a

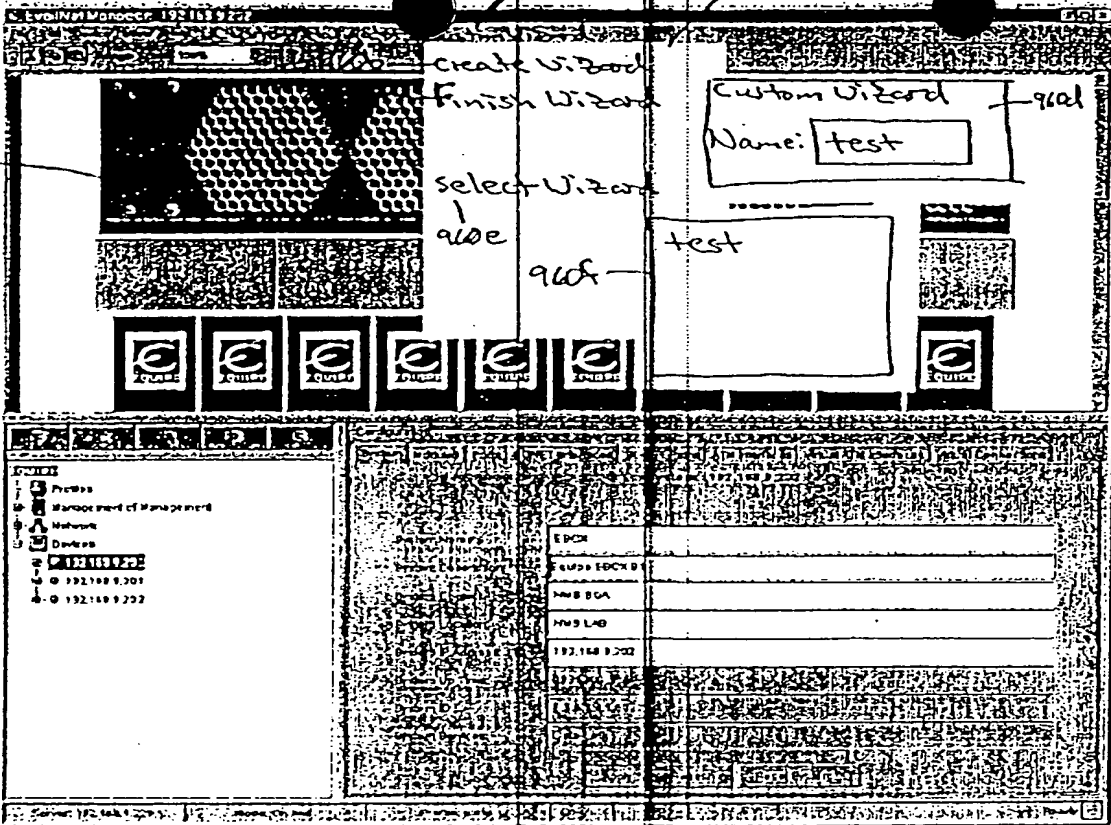
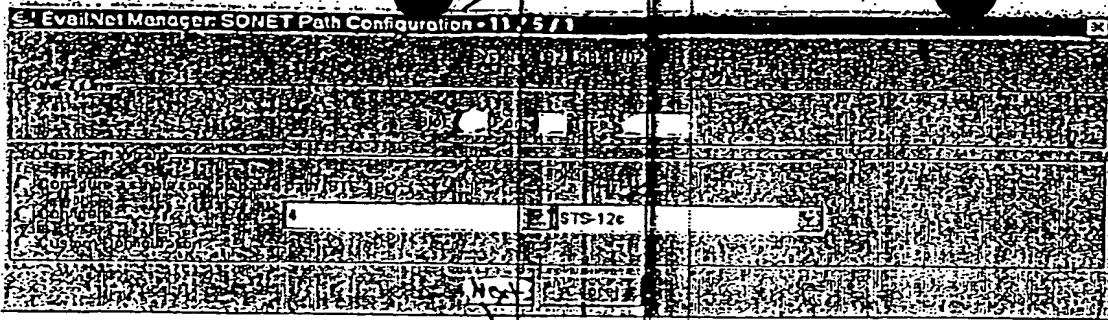


Fig. 4y

00756936-010901



961b

Fig. 42

00755935 040901

895

**EX-101**

**1** ☐ Profiles

**2** ☐ Management of Managers and

**3** ☐ Networks

**4** ☐ Devices

**5** ☐ **1511215 5N**

**6** ☐ 102 108 8 703

**7** ☐ 102 108 8 201

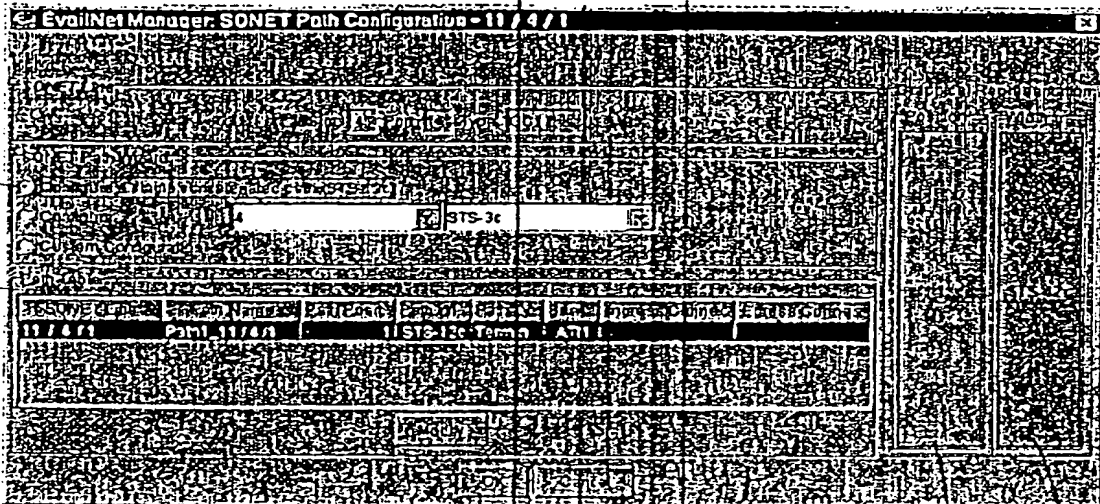
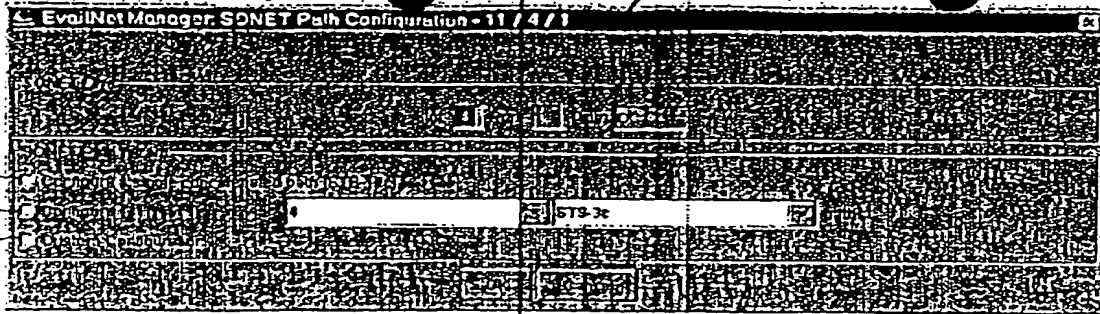
| IP            | Host | Device         | Device Type | Device Name | Device ID | Device Type | Device Name | Device ID |
|---------------|------|----------------|-------------|-------------|-----------|-------------|-------------|-----------|
| 102.108.8.703 | back | Serial Port 1  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 2  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 3  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 4  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 5  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 6  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 7  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 8  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 9  | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 10 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 11 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 12 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 13 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 14 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |
| 102.108.8.703 | back | Serial Port 15 | SOMET       | 8 Mbps      | Down      | Unknown     | Up          |           |

Fig. 5a

897

Fig. 5b

944



944

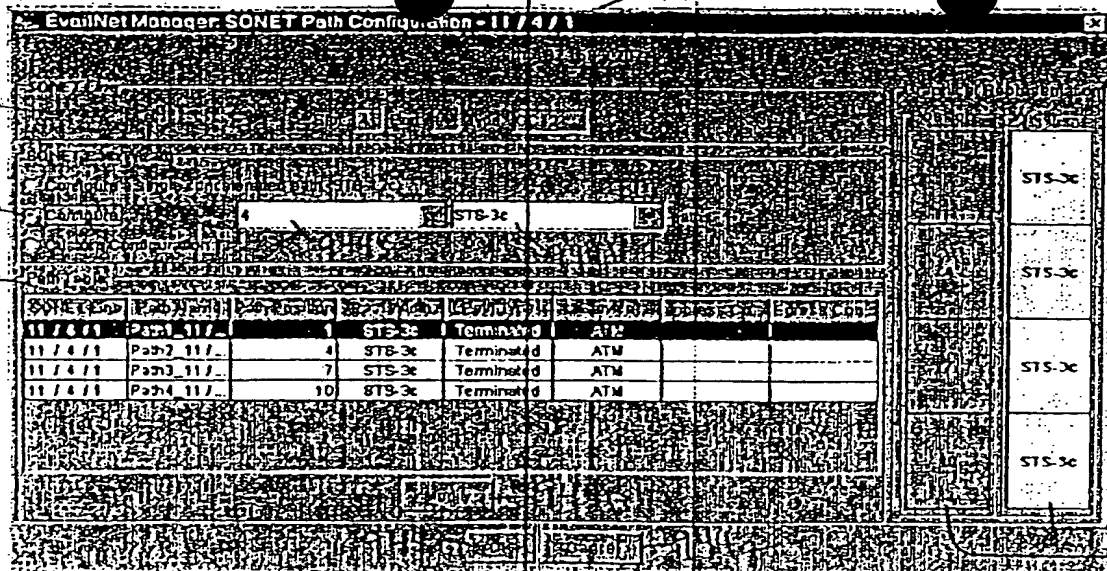
944e

944f

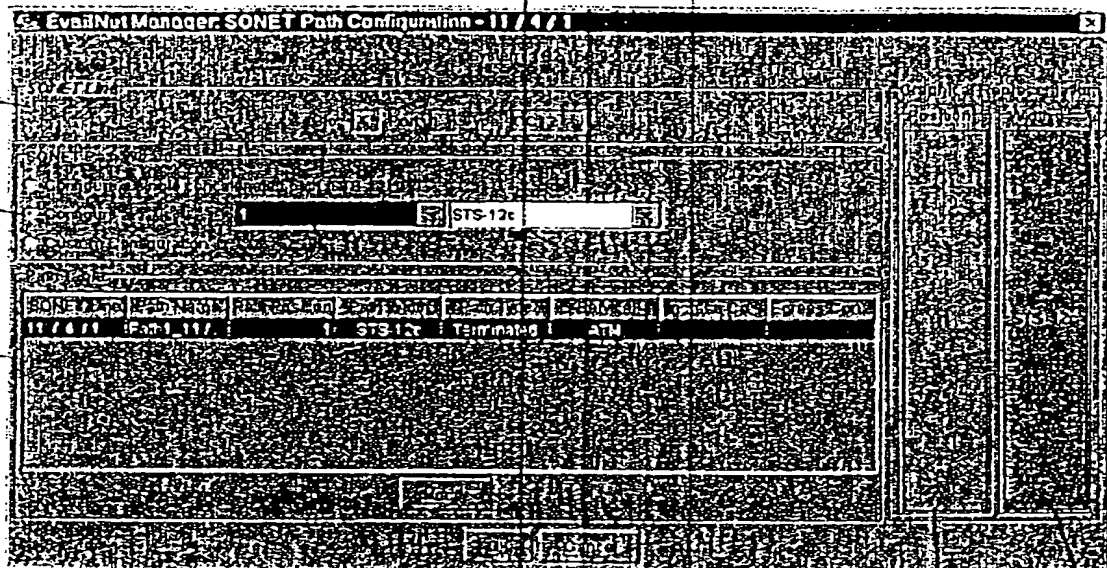
Fig. 5c

Fig. 5d

944



944f  
944e



944

944e 944f

Fig. 5e



Fig. 5f

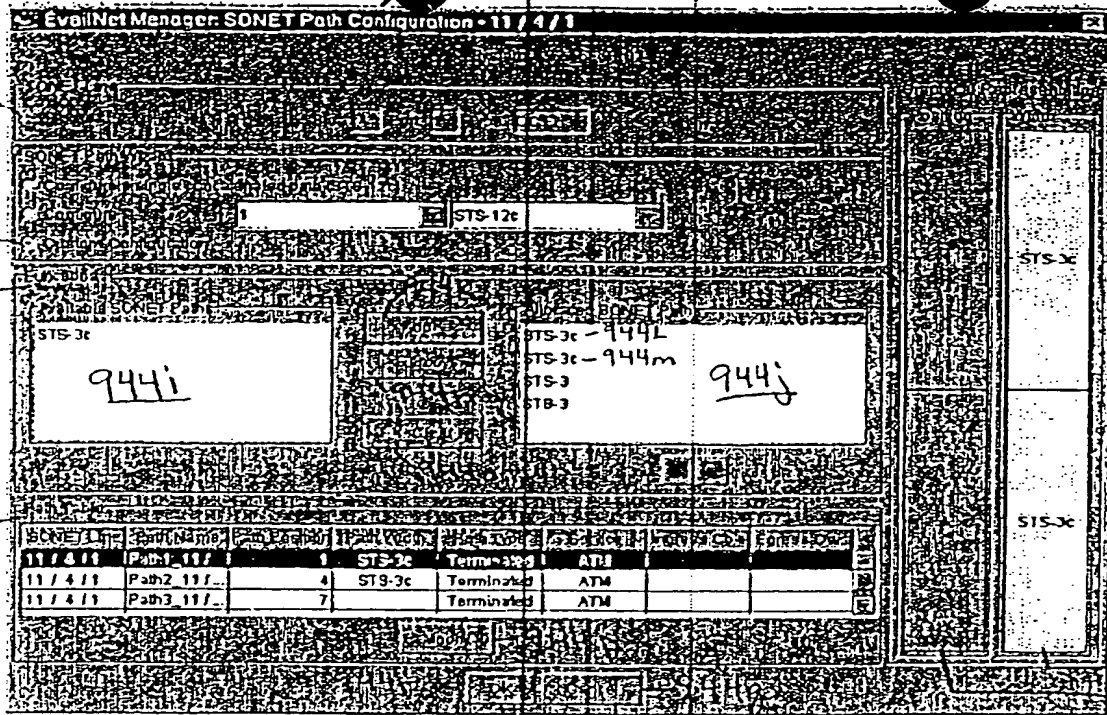
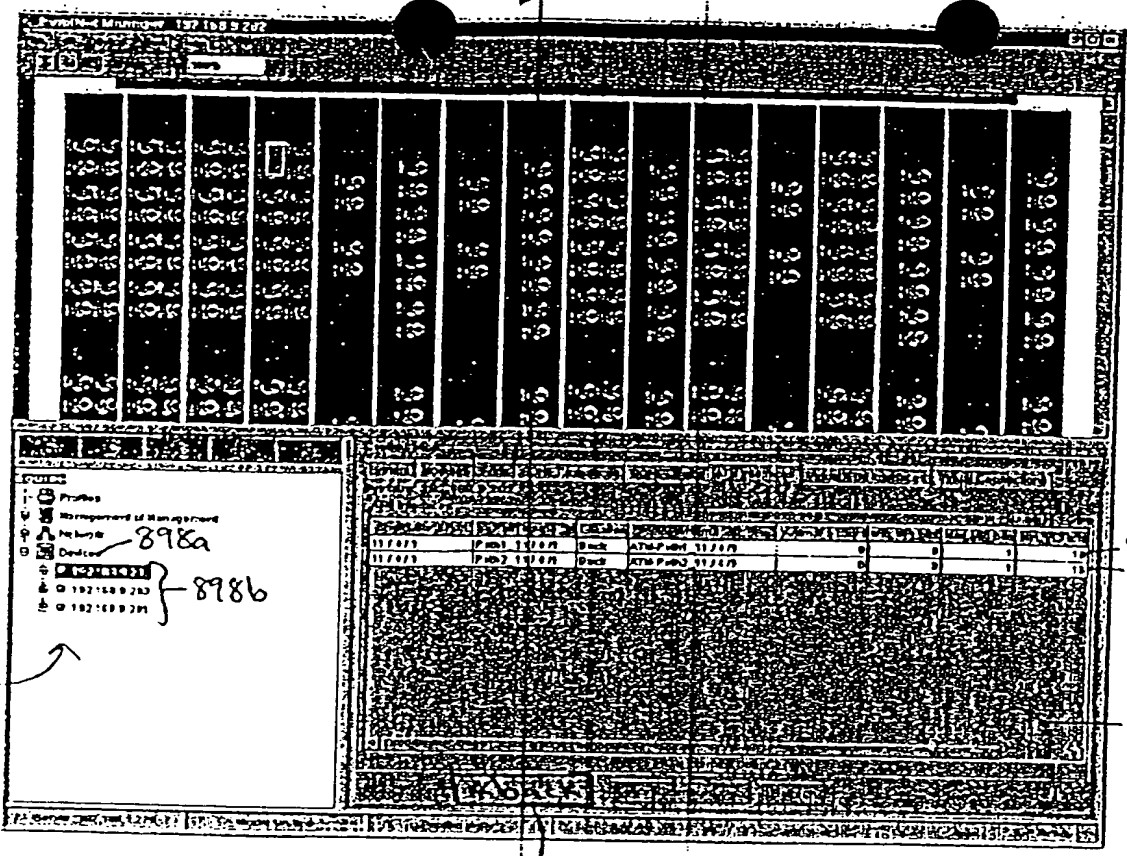


Fig. 5h

895



898a

898b

946a

946b

897

946h

Fig. 5i

00756936-040001

Fig. 5j

556d 741a

895

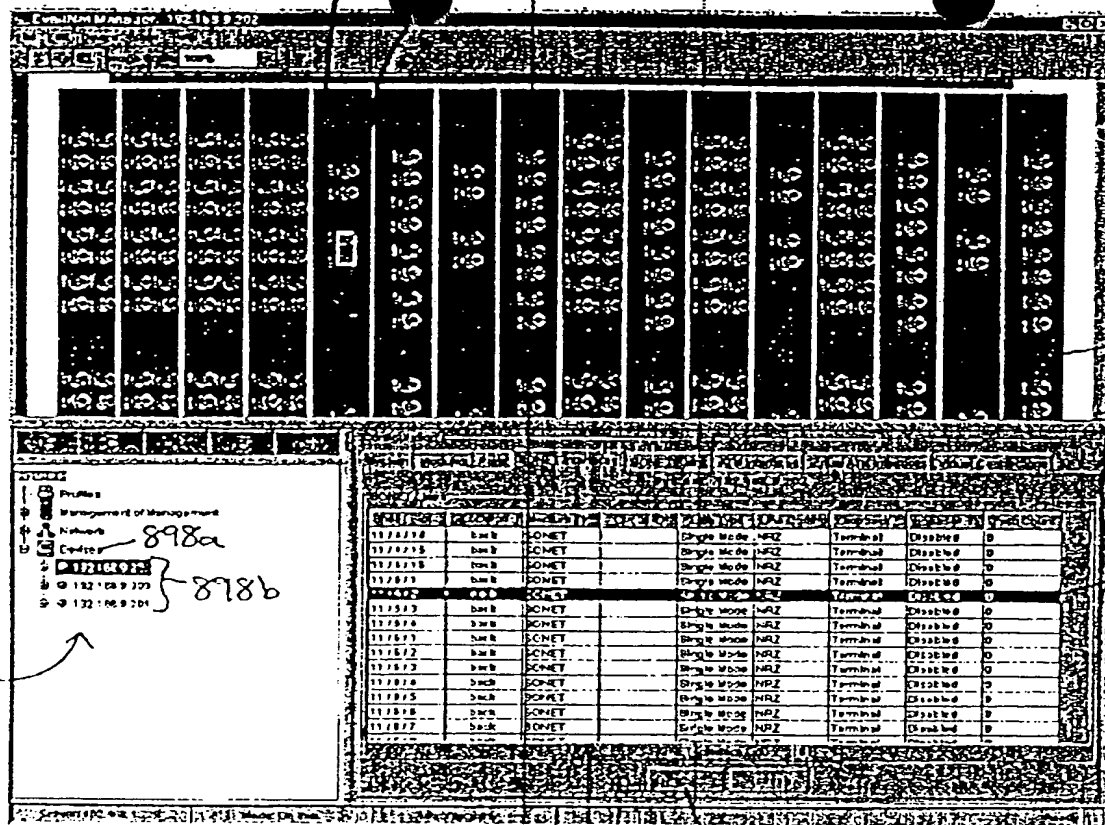


Fig. 5K

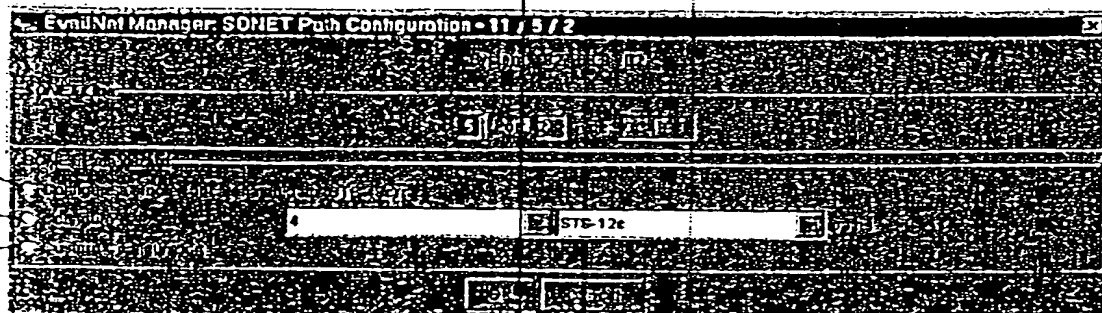


Fig. 5L

944

944a

944b

944c

944d

944g



944f

944e

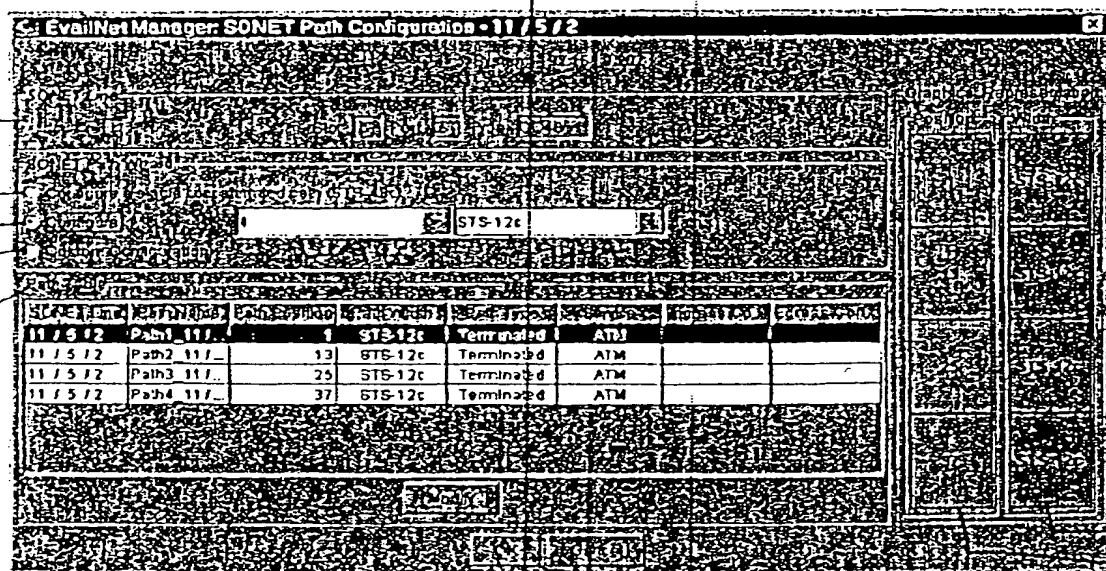
944a

944b

944c

944d

944g



944f

944e

944

Fig. 5m

Fig. 5n

944

944a  
944b  
944c  
944d  
944g

EvaulNet Manager: SONET Path Configuration - 11/5/2

11/5/2 Path 11/1 1 STS-48c Terminals ATM

944f  
944e

944a  
944b  
944c  
944d  
944g

EvaulNet Manager: SONET Path Configuration - 11/5/2

11/5/2 Path 11/1 1 STS-3c Terminals ATM

| Path ID | Path Name    | Path Type | Path Size | Path Status | Path Description |
|---------|--------------|-----------|-----------|-------------|------------------|
| 11/5/2  | Path1 11/5/2 | 1         | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path2 11/5/2 | 4         | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path3 11/5/2 | 7         | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path4 11/5/2 | 10        | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path5 11/5/2 | 13        | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path6 11/5/2 | 16        | STS-3c    | Termi       | ATM              |
| 11/5/2  | Path7 11/5/2 | 19        | STS-3c    | Termi       | ATM              |

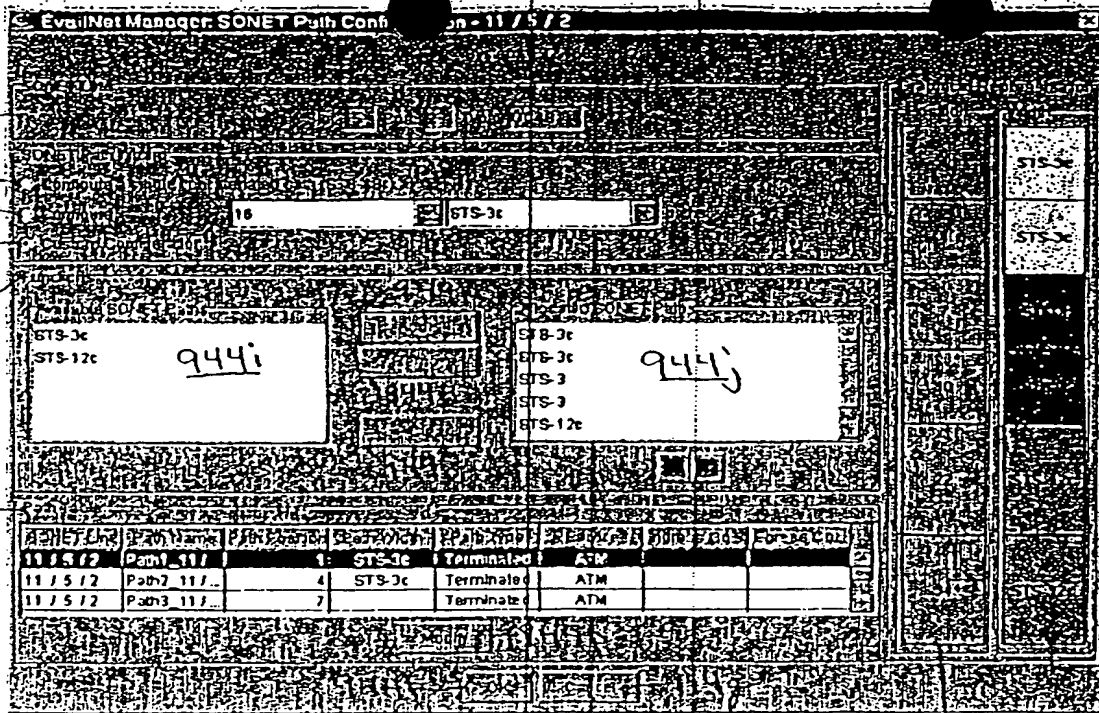
944f  
944e

944

Fig. 5o

944a  
944b  
944c  
944d  
944h

944g



944f

944

944e

Fig. 5p

11/5/2  
Path1\_111  
Path2\_111  
Path3\_111

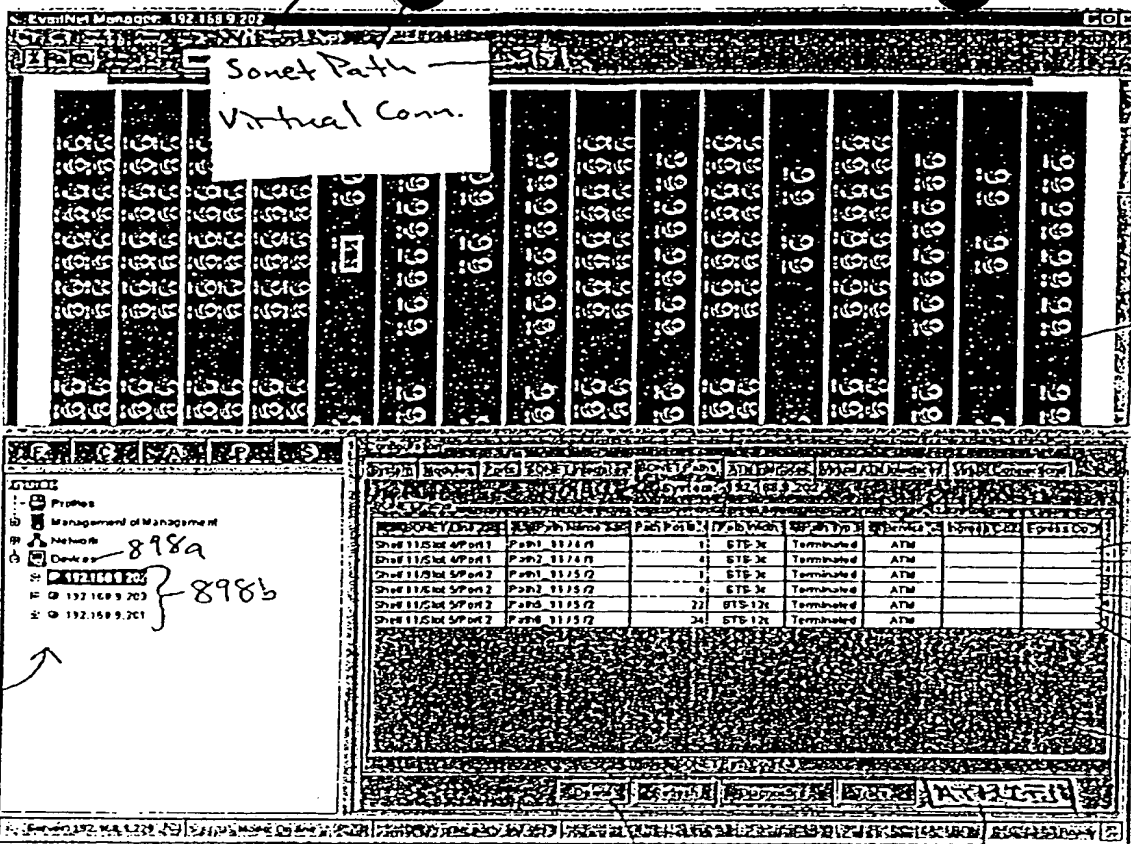
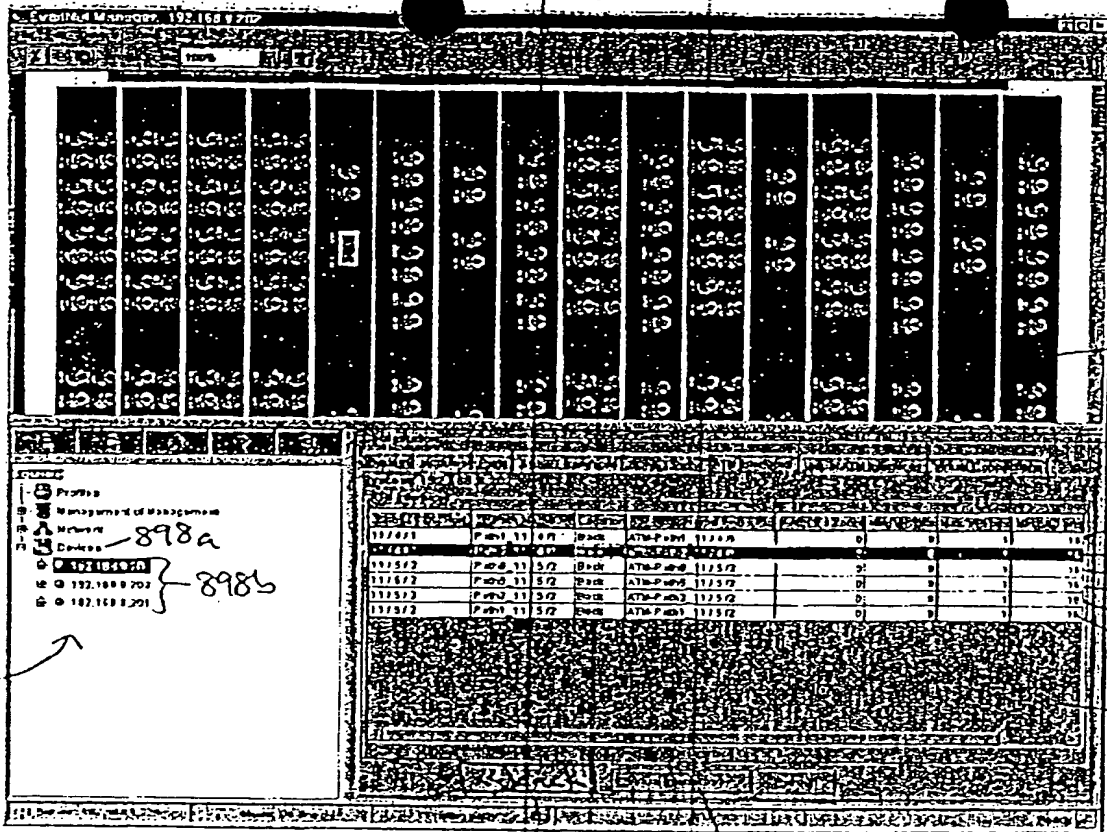


Fig. 5g



895



898

896a

946a

946b

946c

946d

946e

946f

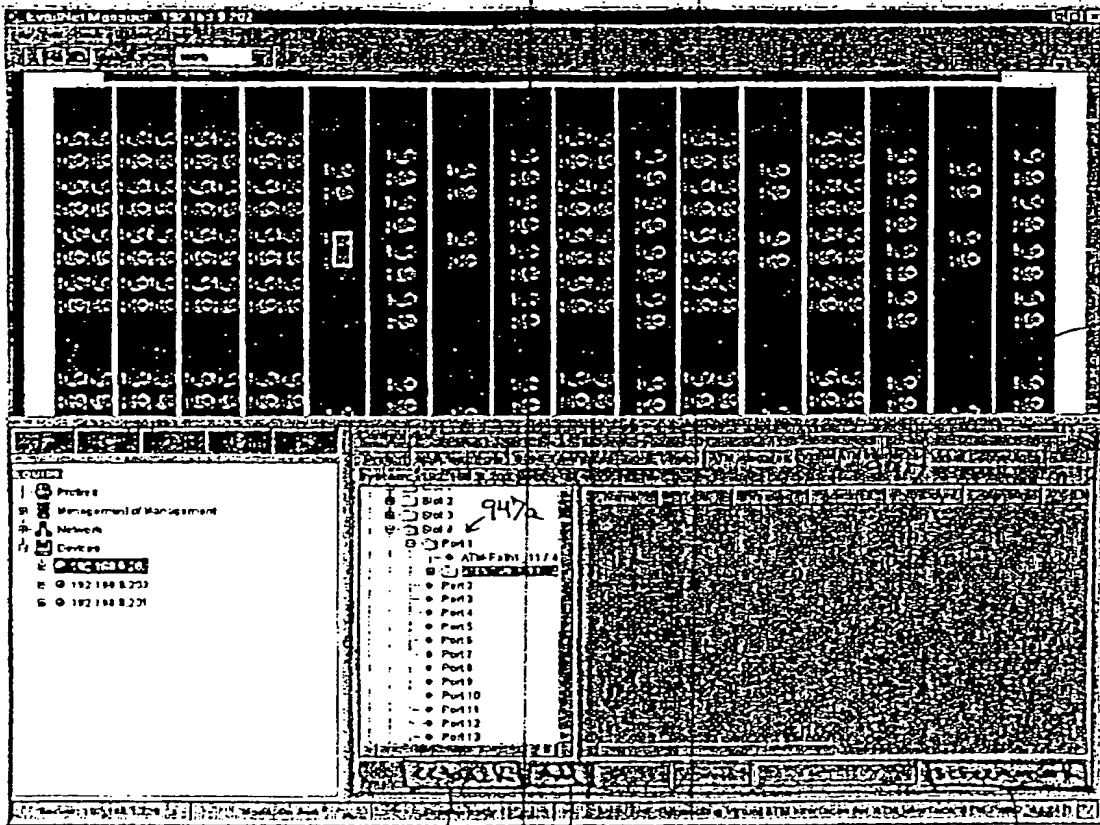
897

946h

946g

Fig. 5r

895



896a

947d

947b

959

Fig. 5s

0095936-01001

Fig. 5u

556d

895

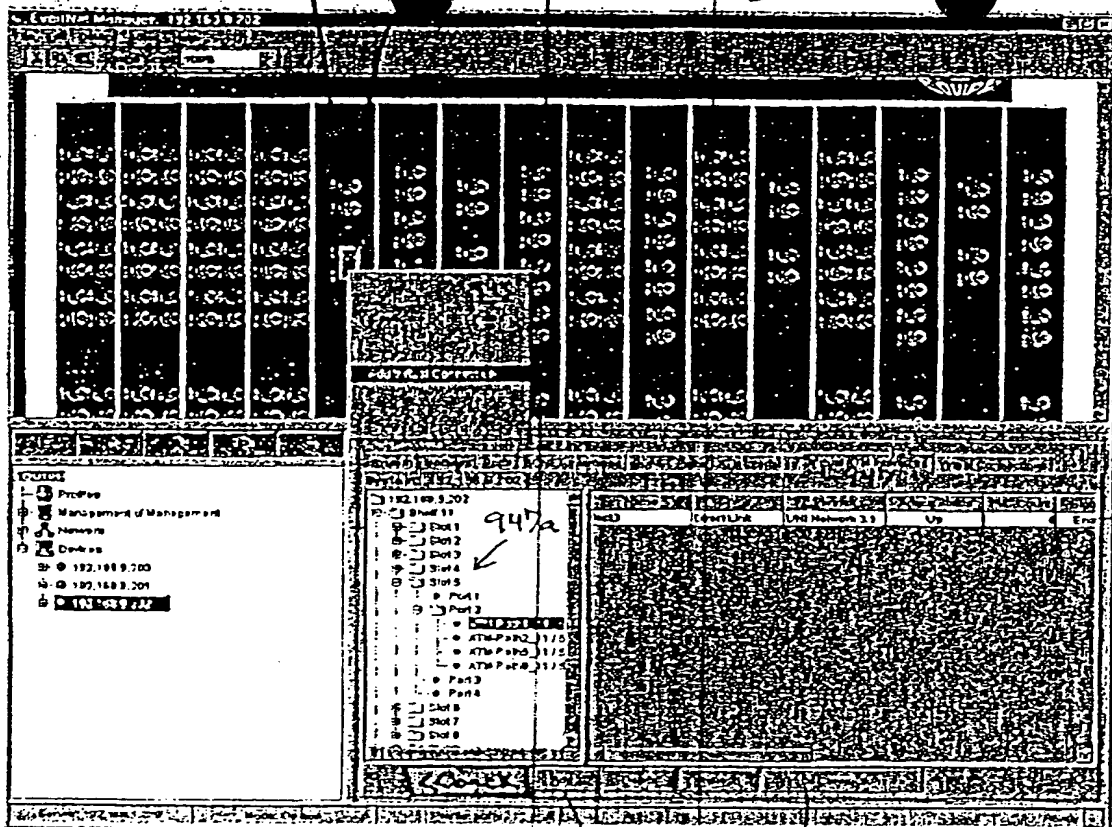


Fig. 5v

952

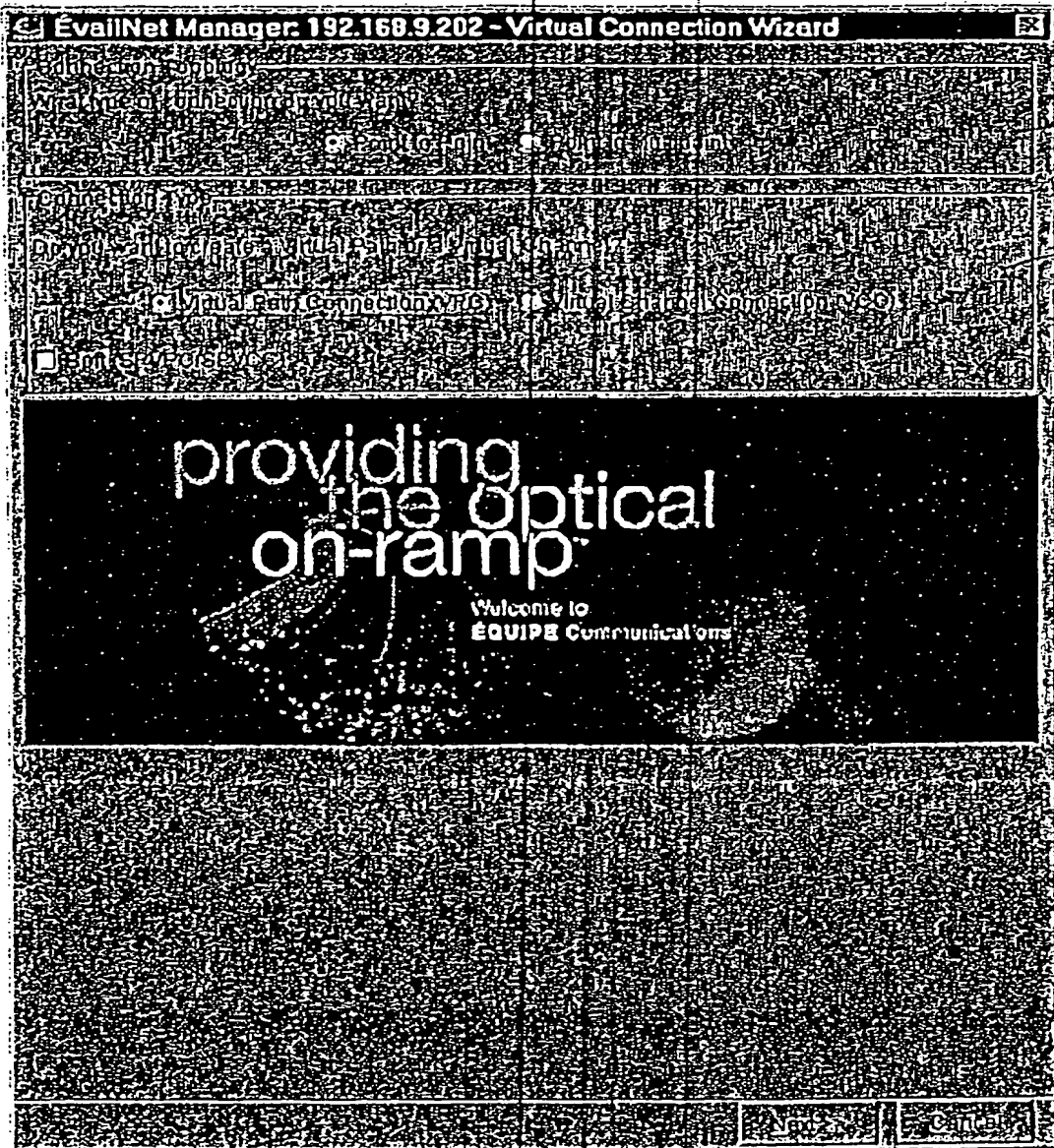


Fig. 5w

953

**EvailNet Manager: 192.168.9.202 - Virtual Connection Wizard**

Source: 192.168.9.100 Destination: 192.168.9.101

**Slot 4**

- Port 1
  - ATM-Path1\_11/4/1
  - ATM-Path2\_11/4/1
    - test1
    - test2
- Port 2
- Port 3
- Port 4

**Slot 3**

- Slot 4
- Slot 5
  - Port 1
  - Port 2
    - ATM-Path1\_11/5/2
      - test
    - ATM-Path2\_11/5/2
    - ATM-Path5\_11/5/2

**Connection Parameters**

Connection Name: test

Direction: Up

Customer Name: Walmart

**QoS Parameters**

Transmit Frame Description: VBR-high

Receive Frame Description: VBR-high

**QoS Policy Parameters**

Transmit Frame Description: VBR-high

Receive Frame Description: VBR-high

Use the same frame description for both directions

Buttons: Back, Finish, Cancel

Fig. 5x

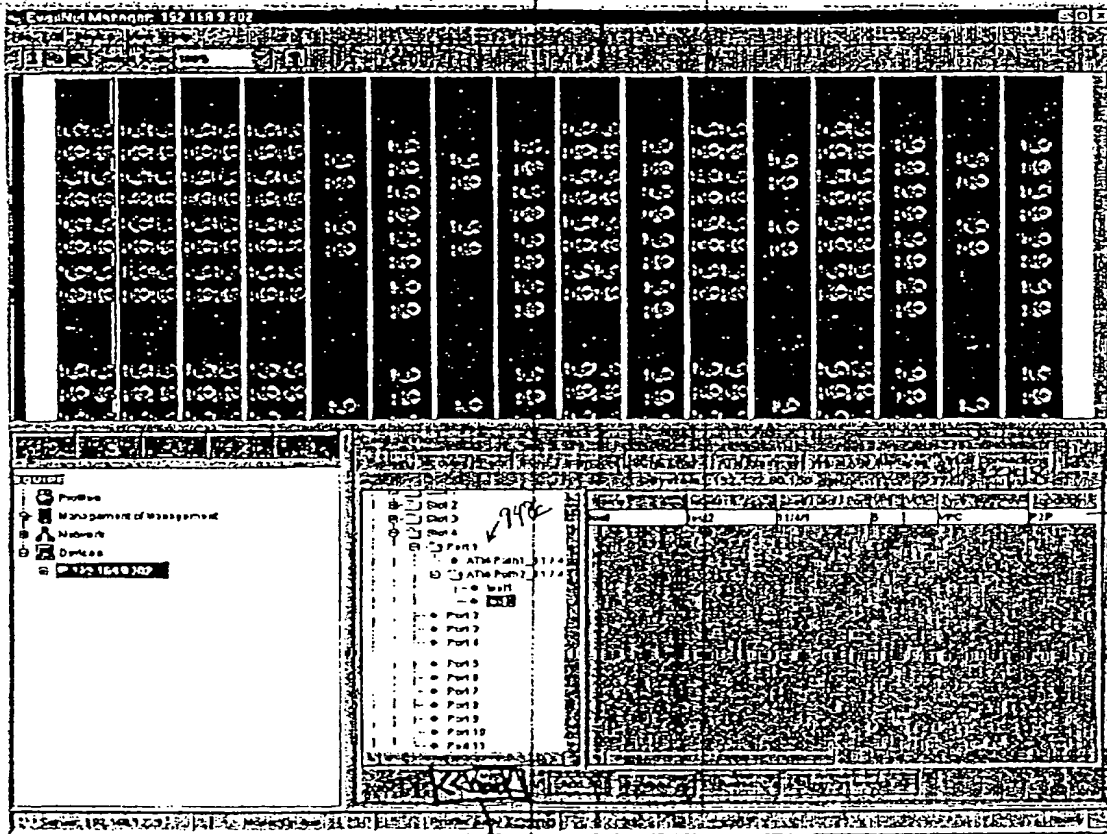
**New Traffic Descriptor**

Name:

QoS Class:  ▼

Type:  ▼

Fig. 5Y

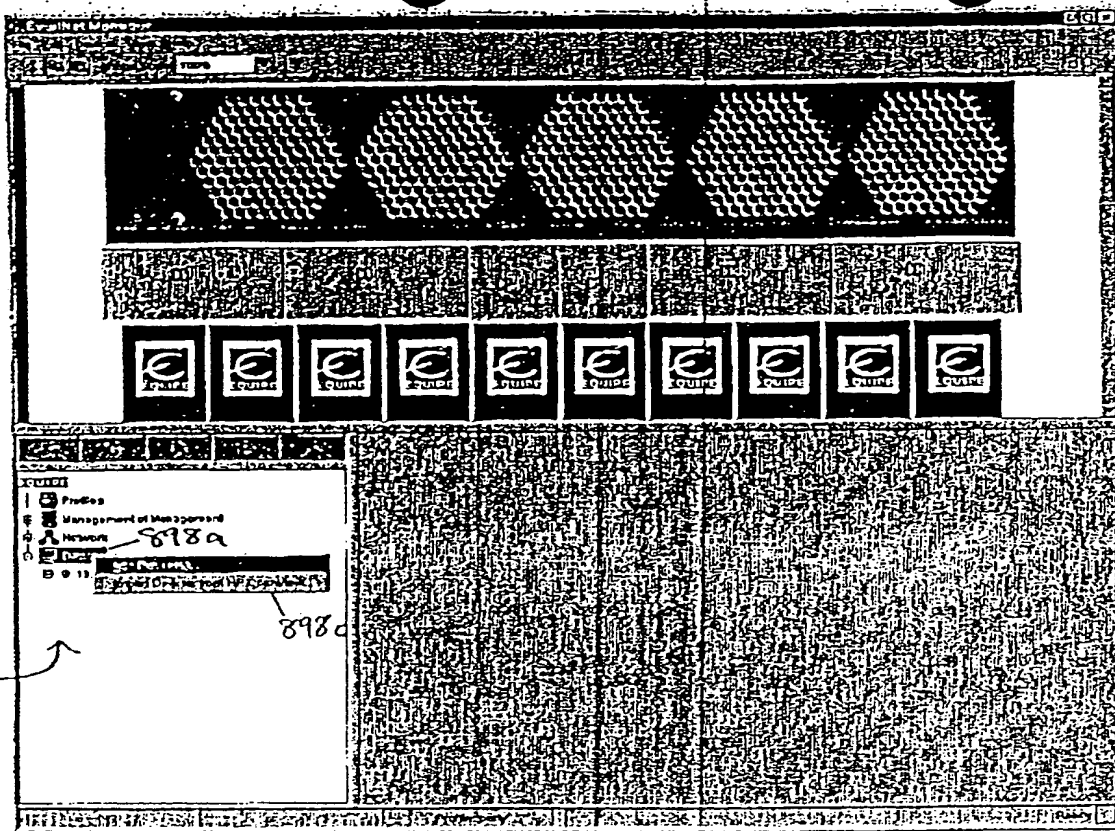
[illegible]

9486

Fig. 52



895



898

898a

Fig. 6a

Fig. 6b

The screenshot shows a dialog box titled "AddDeleteDeviceDlg". It contains a text input field with the IP address "192.168.9.201". Below this is a checkbox labeled "Manual device IP address". At the bottom, there is a list box titled "On the Device" which is currently empty. To the right of the dialog box, there are three handwritten labels with arrows pointing to specific parts: "898e" points to the text input field, "898d" points to the checkbox, and "898g" points to the list box.

Fig. 6c

The screenshot shows the same dialog box "AddDeleteDeviceDlg". The text input field is empty. The checkbox "Manual device IP address" is checked. The list box titled "On the Device" now contains one entry: "192.168.9.201". To the right of the dialog box, there are two handwritten labels with arrows: "898d" points to the checkbox, and "898g" points to the list box. Additionally, the label "898m" is written next to the entry in the list box.

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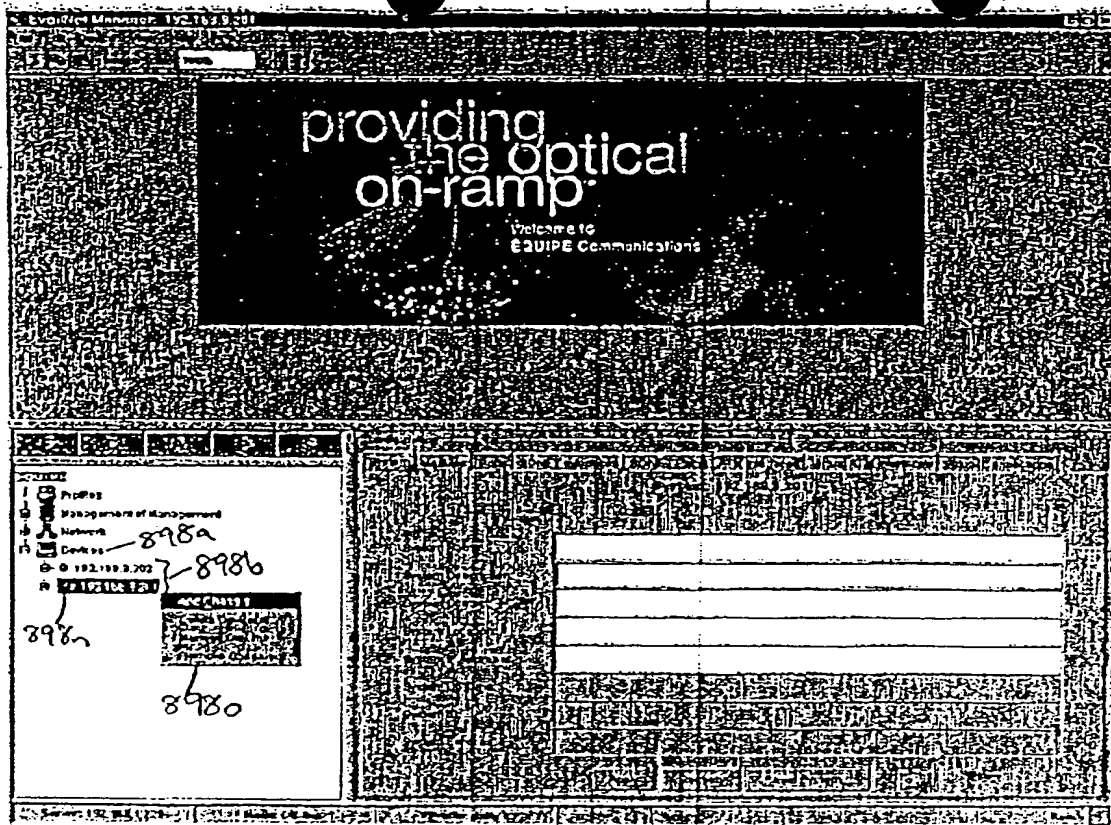


Fig. 6d

00756926-040004



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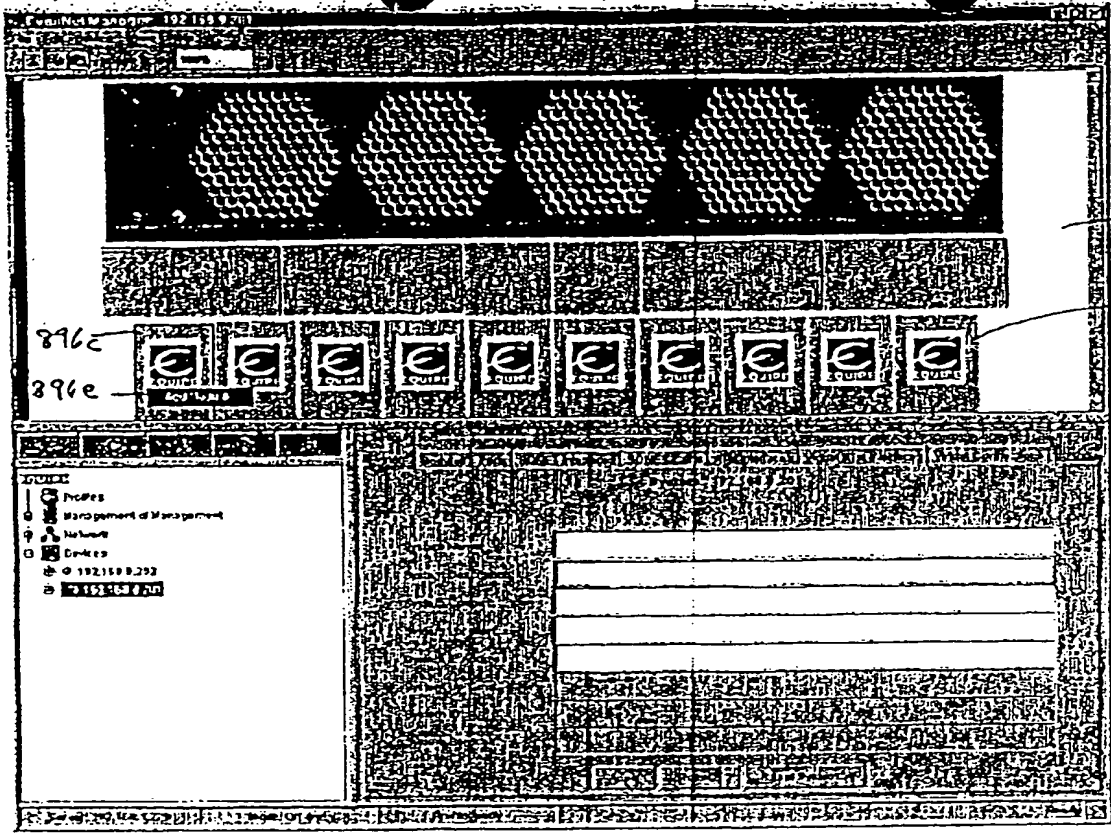


Fig. 6f

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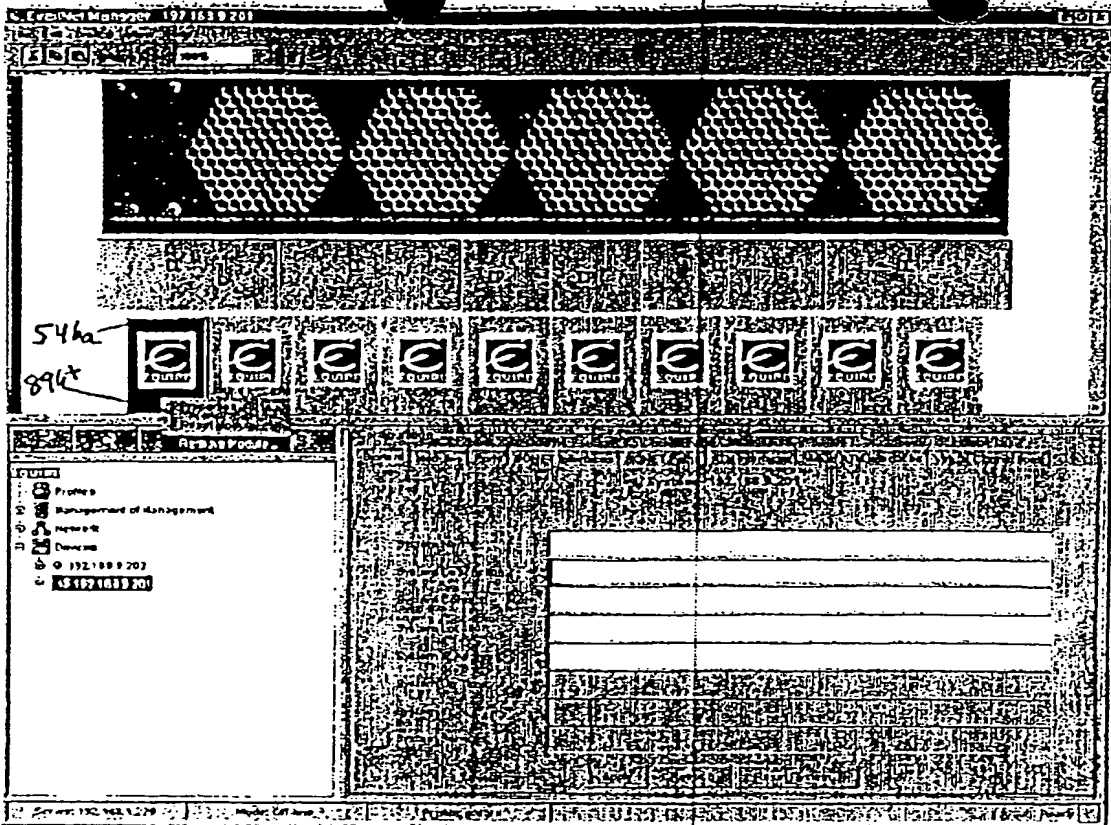


Fig. 69

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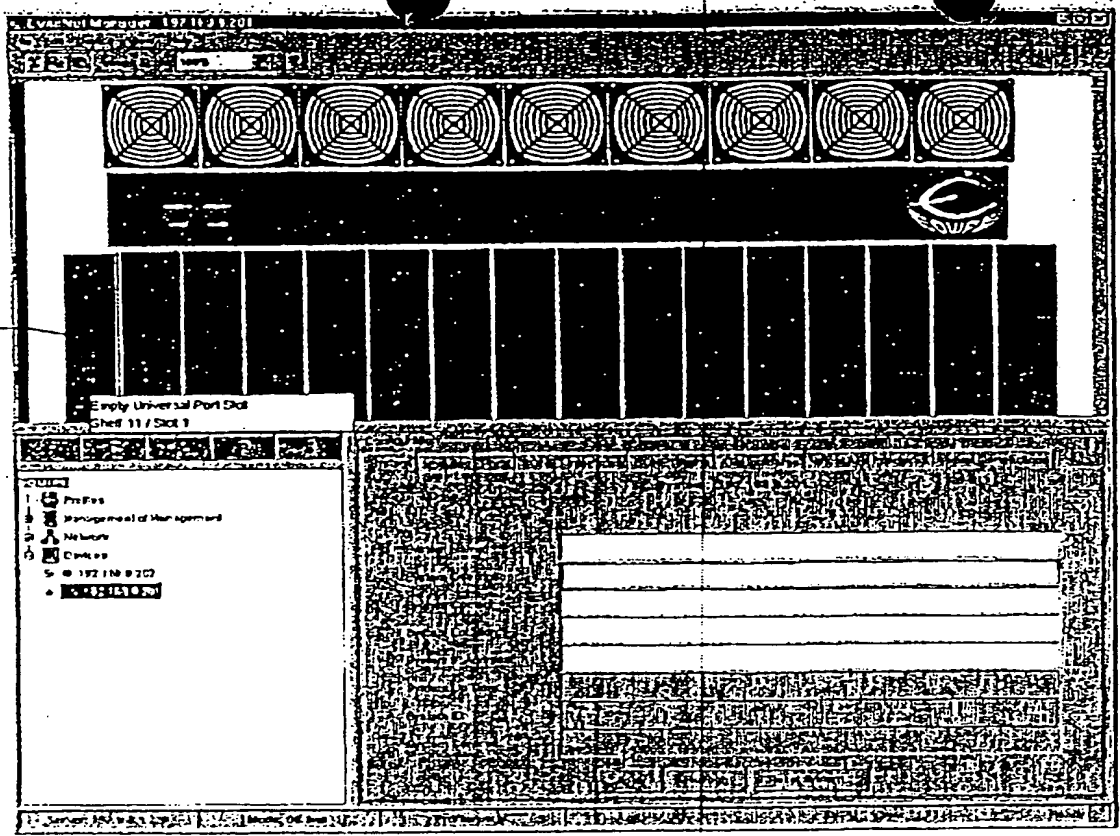
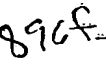


Fig. 6h

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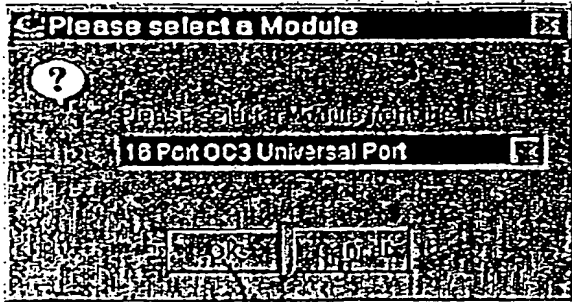
896 g

Fig. 6i

[illegible]

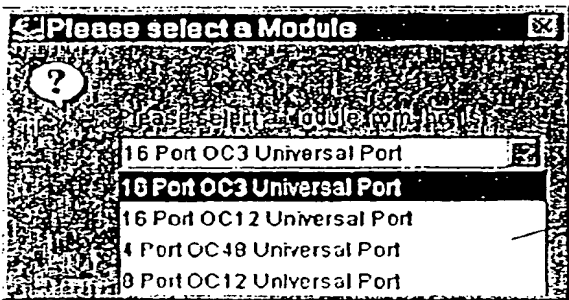


Fig. 6j



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896h

896i

Fig. 6K

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| Country | Year | Population (millions) | Urban population (millions) | Urban population (%) | Population density (per sq km) | Urban population density (per sq km) | Population growth rate (%) | Urban population growth rate (%) | Population growth rate (%) | Urban population growth rate (%) | Population growth rate (%) | Urban population growth rate (%) |
|---------|------|-----------------------|-----------------------------|----------------------|--------------------------------|--------------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|
| Algeria | 1980 | 12.5                  | 5.5                         | 44                   | 100                            | 100                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 1985 | 13.5                  | 6.5                         | 48                   | 110                            | 110                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 1990 | 14.5                  | 7.5                         | 52                   | 120                            | 120                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 1995 | 15.5                  | 8.5                         | 55                   | 130                            | 130                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2000 | 16.5                  | 9.5                         | 58                   | 140                            | 140                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2005 | 17.5                  | 10.5                        | 60                   | 150                            | 150                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2010 | 18.5                  | 11.5                        | 62                   | 160                            | 160                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2015 | 19.5                  | 12.5                        | 64                   | 170                            | 170                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2020 | 20.5                  | 13.5                        | 66                   | 180                            | 180                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2025 | 21.5                  | 14.5                        | 67                   | 190                            | 190                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2030 | 22.5                  | 15.5                        | 69                   | 200                            | 200                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2035 | 23.5                  | 16.5                        | 70                   | 210                            | 210                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2040 | 24.5                  | 17.5                        | 71                   | 220                            | 220                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2045 | 25.5                  | 18.5                        | 73                   | 230                            | 230                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2050 | 26.5                  | 19.5                        | 74                   | 240                            | 240                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2055 | 27.5                  | 20.5                        | 75                   | 250                            | 250                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2060 | 28.5                  | 21.5                        | 76                   | 260                            | 260                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2065 | 29.5                  | 22.5                        | 77                   | 270                            | 270                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2070 | 30.5                  | 23.5                        | 78                   | 280                            | 280                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2075 | 31.5                  | 24.5                        | 79                   | 290                            | 290                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2080 | 32.5                  | 25.5                        | 80                   | 300                            | 300                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2085 | 33.5                  | 26.5                        | 81                   | 310                            | 310                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2090 | 34.5                  | 27.5                        | 82                   | 320                            | 320                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2095 | 35.5                  | 28.5                        | 83                   | 330                            | 330                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2100 | 36.5                  | 29.5                        | 83                   | 340                            | 340                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2105 | 37.5                  | 30.5                        | 83                   | 350                            | 350                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2110 | 38.5                  | 31.5                        | 83                   | 360                            | 360                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2115 | 39.5                  | 32.5                        | 83                   | 370                            | 370                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2120 | 40.5                  | 33.5                        | 83                   | 380                            | 380                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2125 | 41.5                  | 34.5                        | 83                   | 390                            | 390                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2130 | 42.5                  | 35.5                        | 83                   | 400                            | 400                                  | 1.5                        | 1.5                              | 1.5                        | 1.5                              | 1.5                        | 1.5                              |
| Algeria | 2135 | 43.5                  | 36.5                        |                      |                                |                                      |                            |                                  |                            |                                  |                            |                                  |

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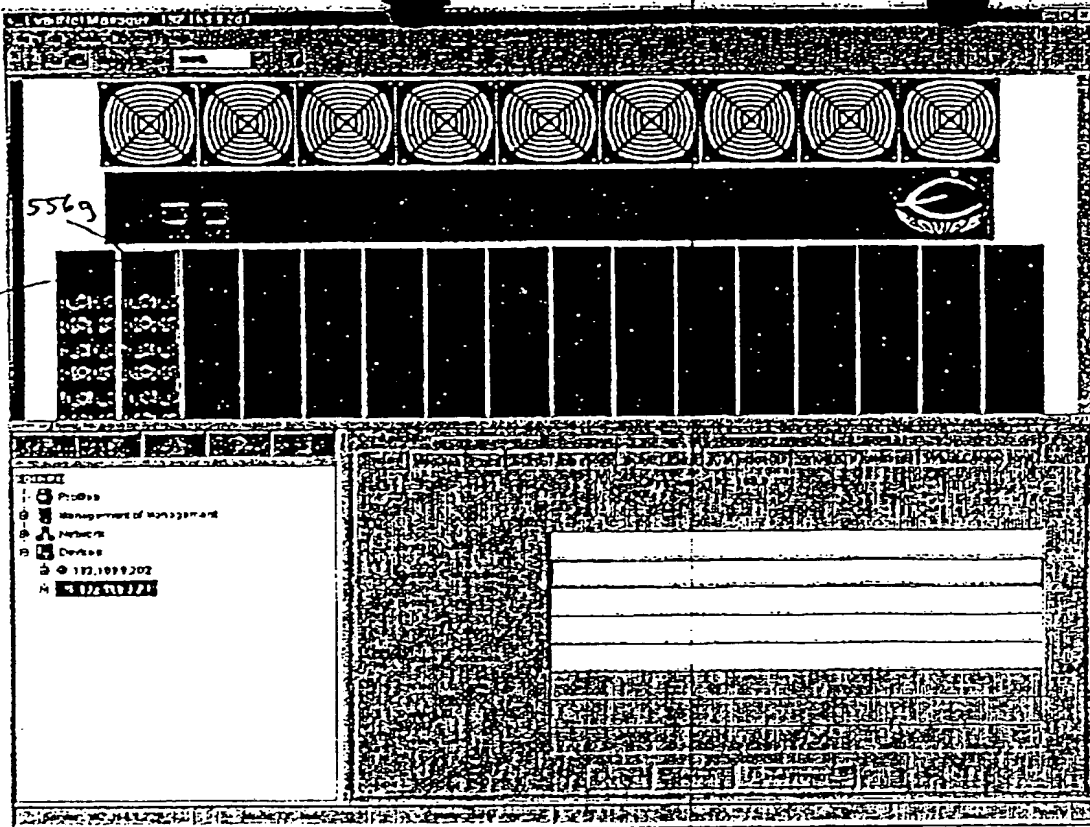


Fig. 6m

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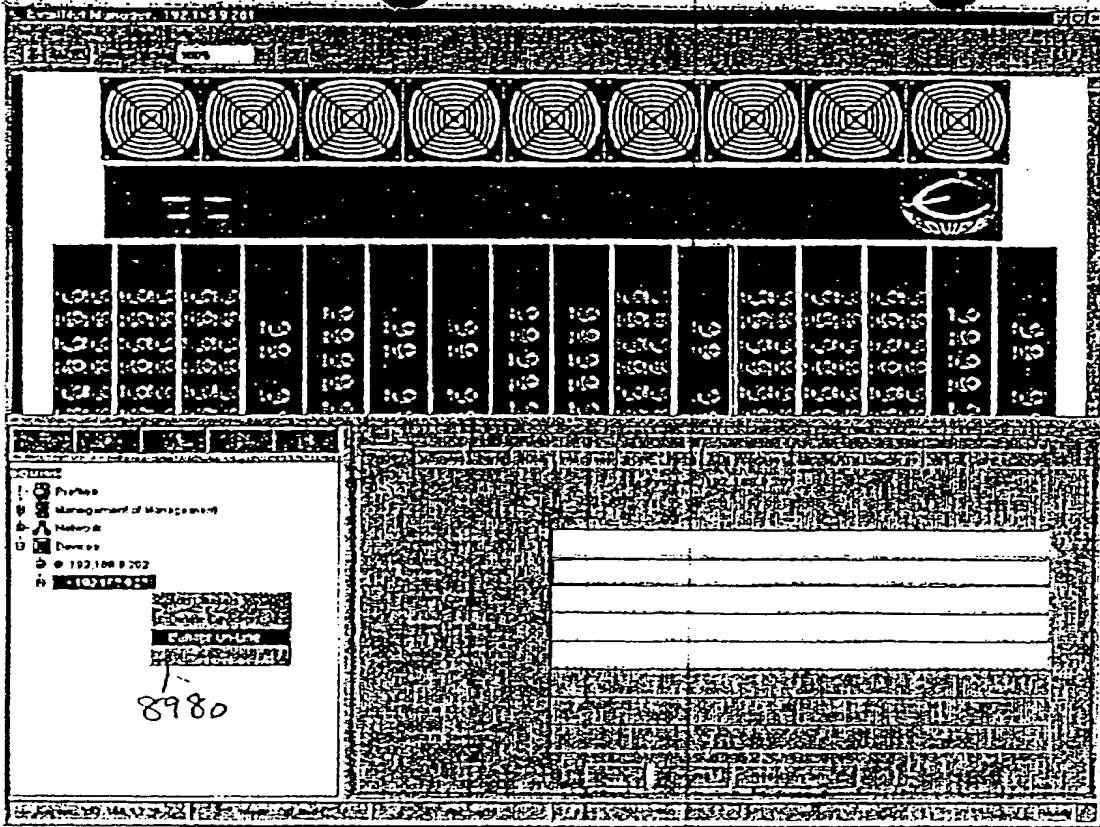


Fig. 6n

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192.168.201

Management of Management

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Fig. 60



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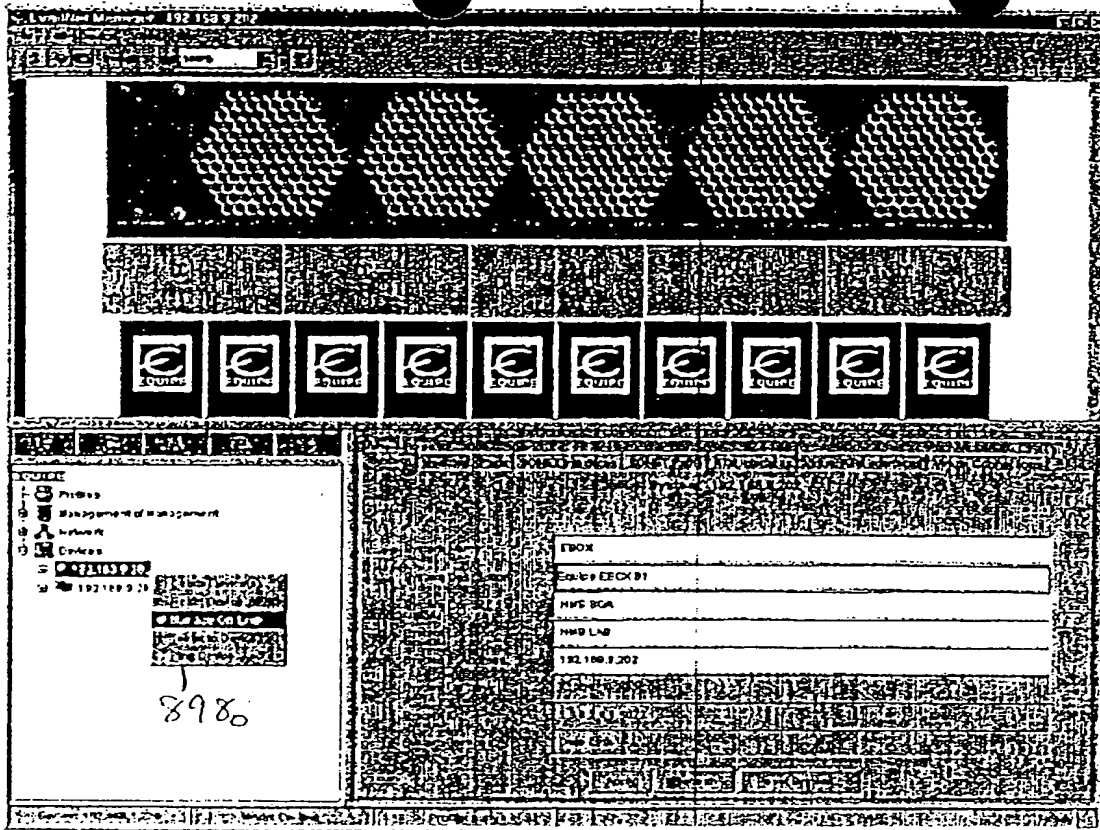


Fig. 6p

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899c  
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Fig. 7a

10606059269566





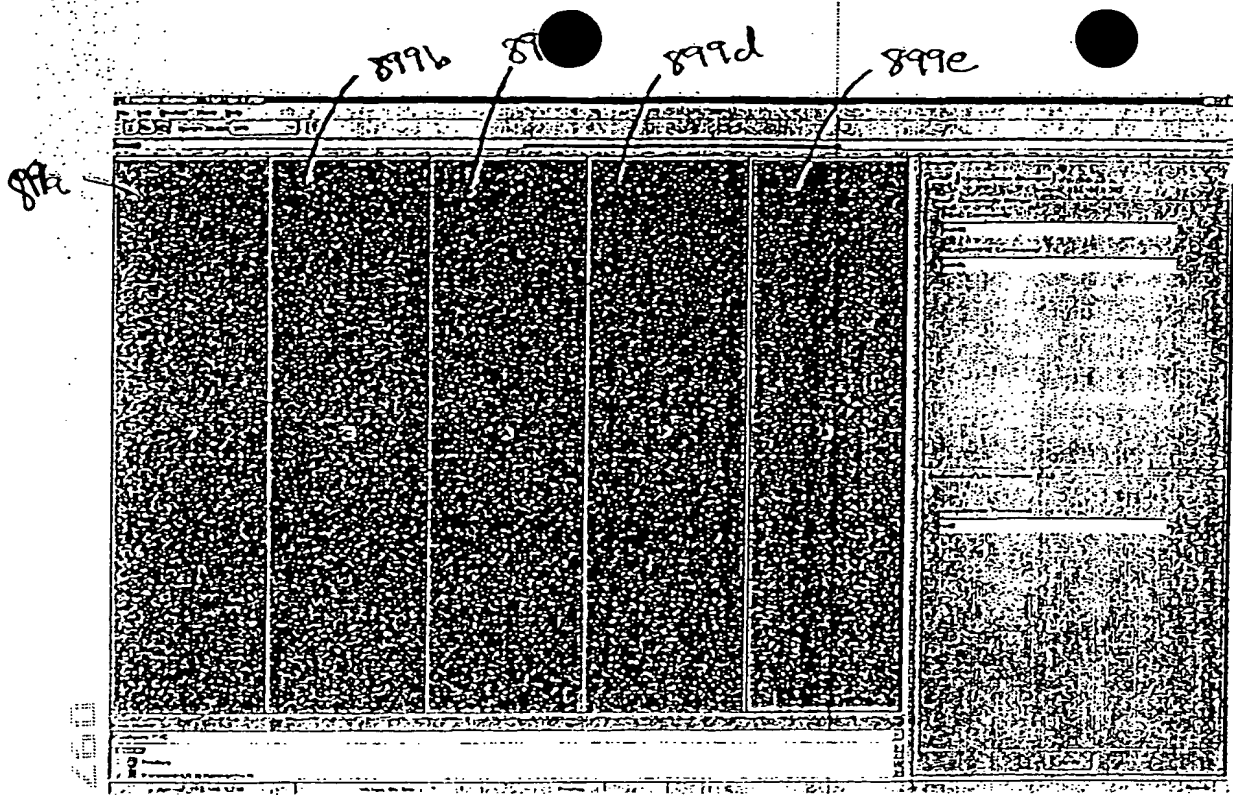


Fig. 7c

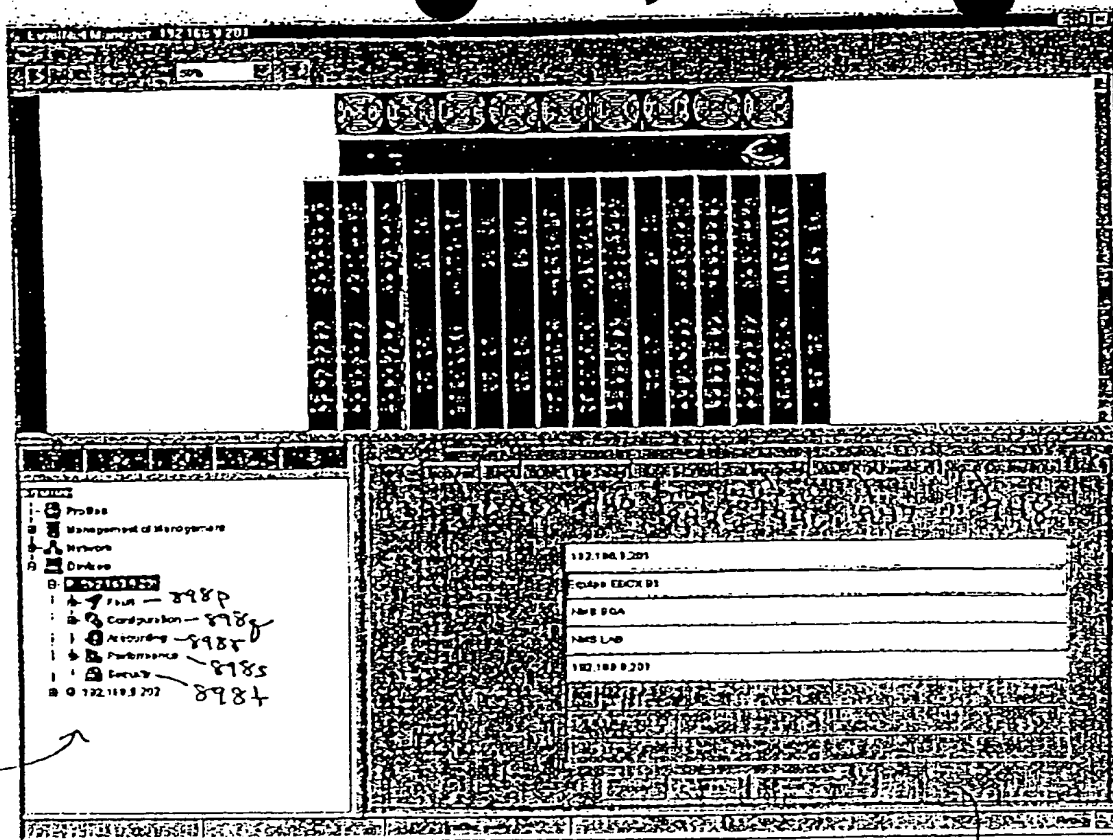


Fig. 7d

895

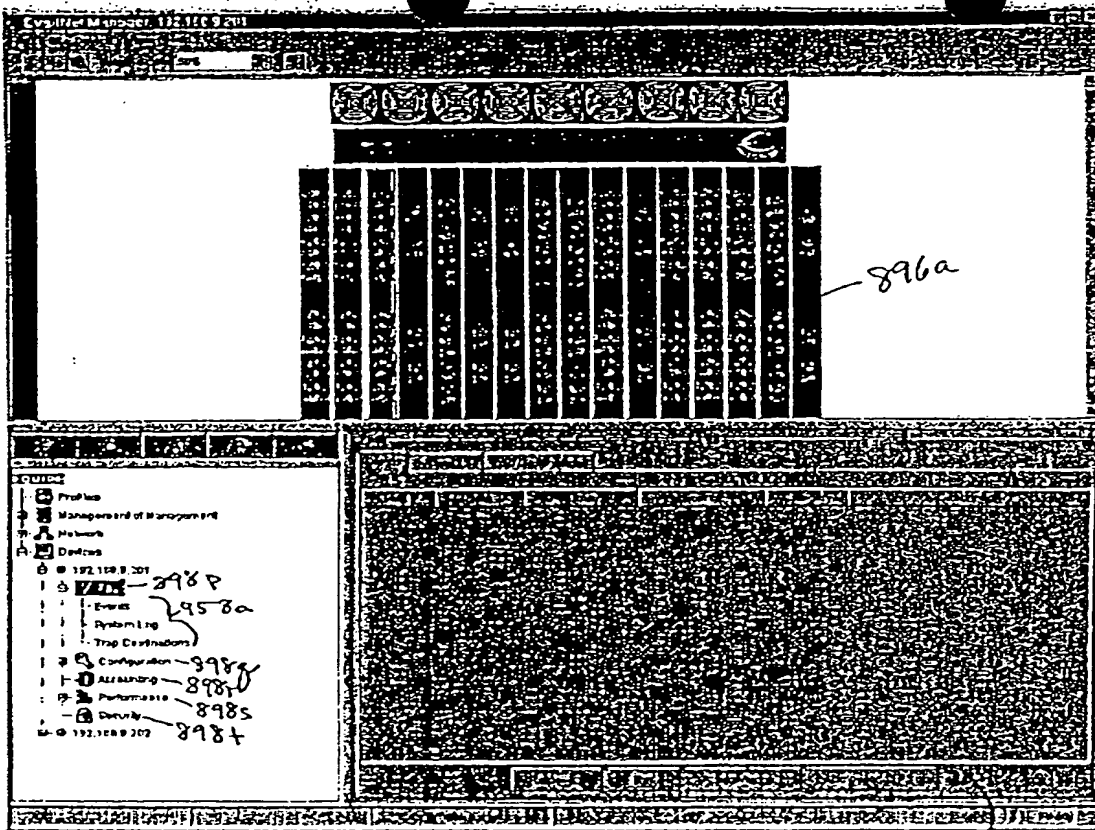
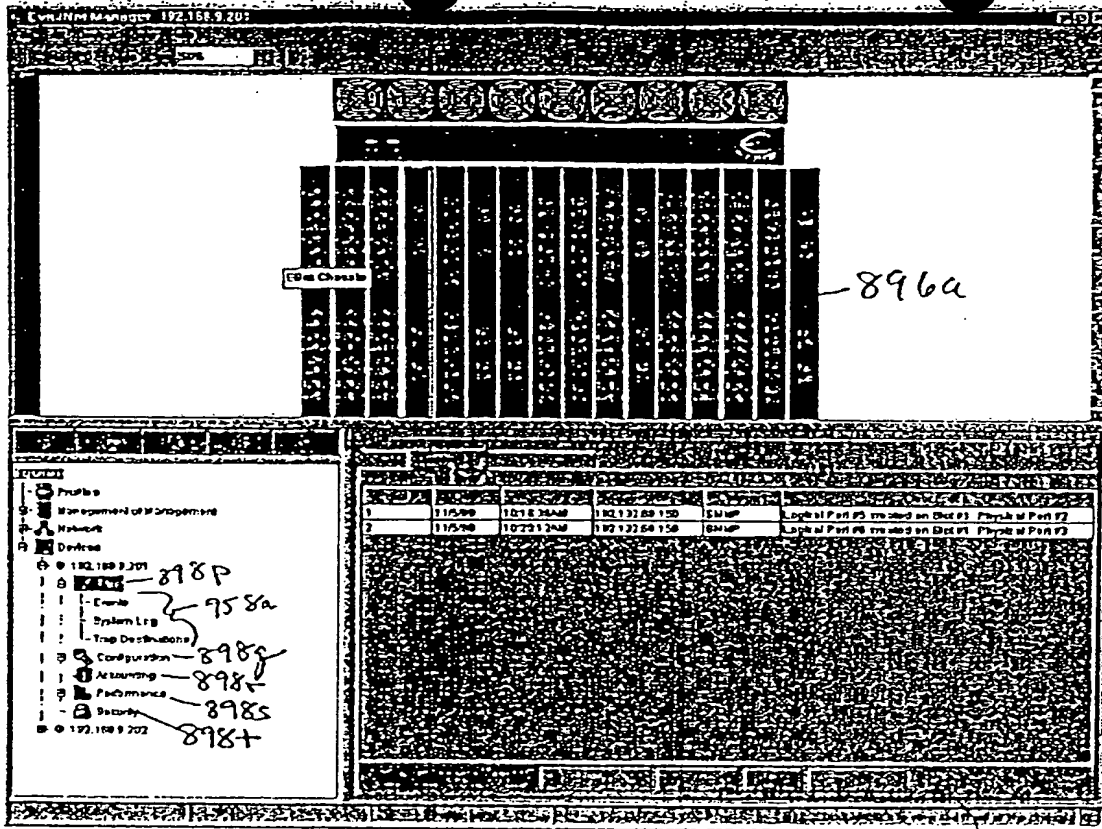


Fig. 7e

895

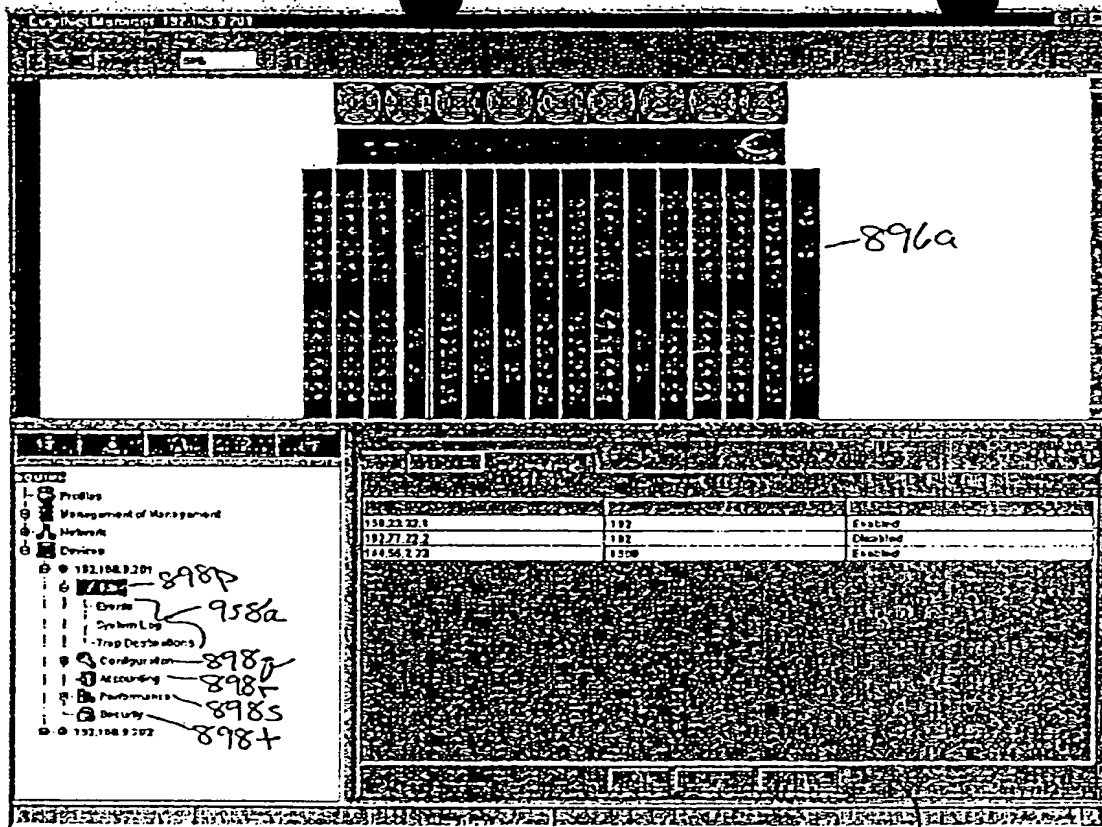


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Fig. 24

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Fig. 7g

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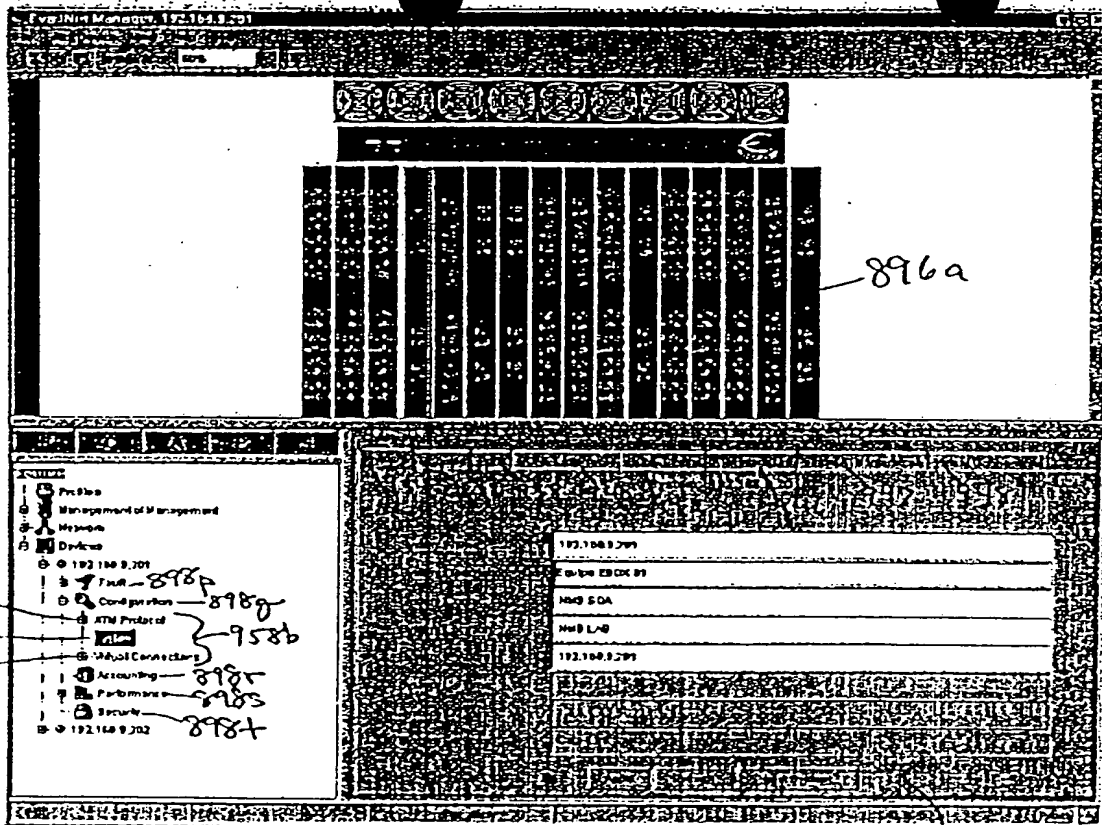


Fig. 7h

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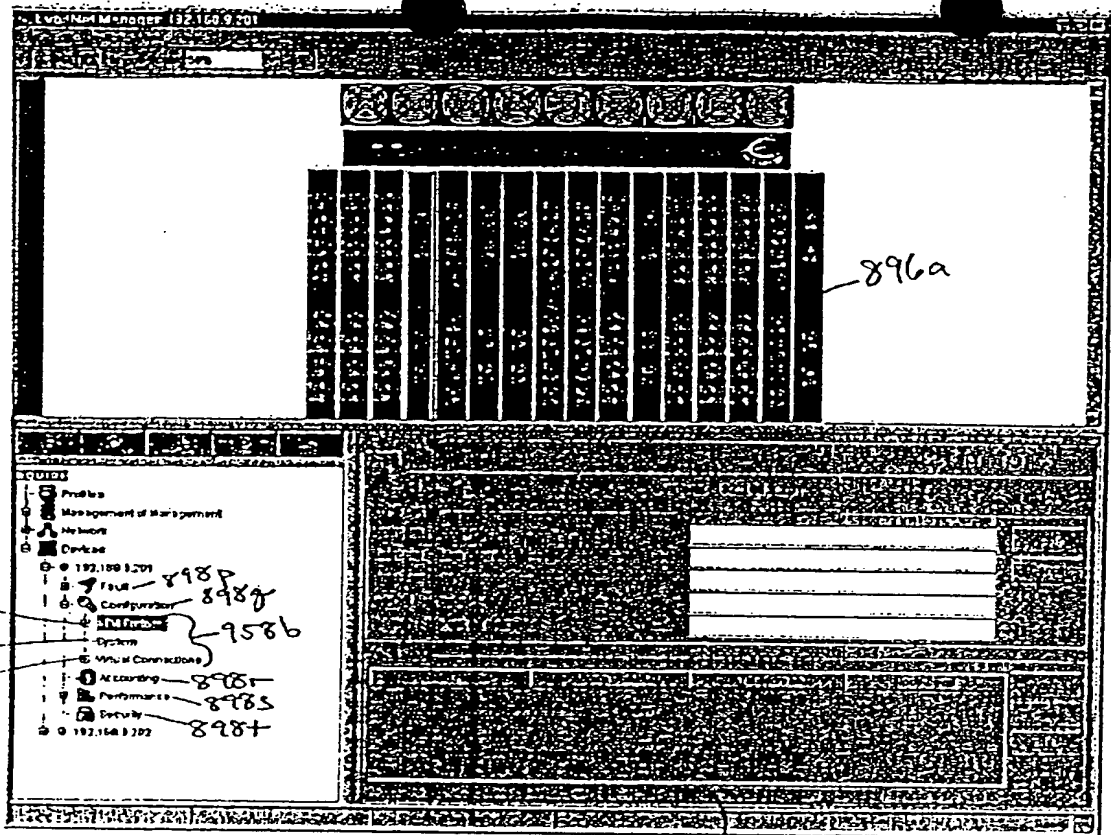


Fig. 7i

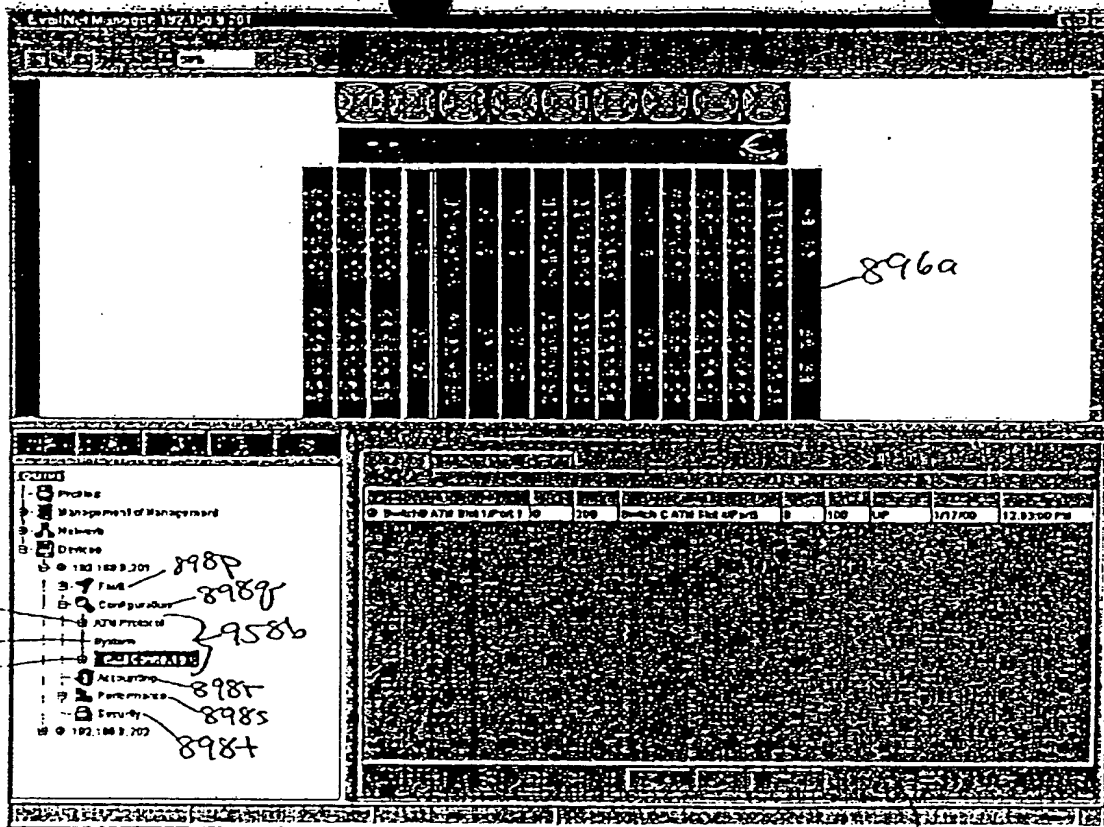


Fig. 7j



895

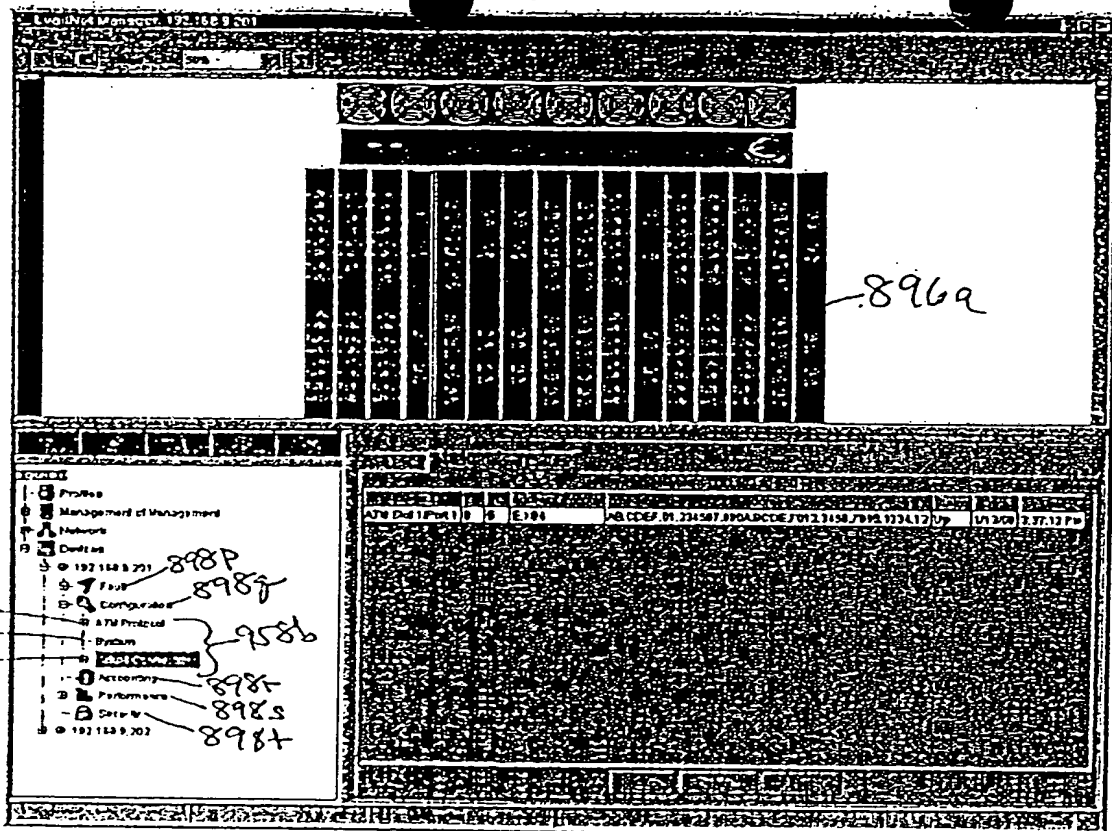
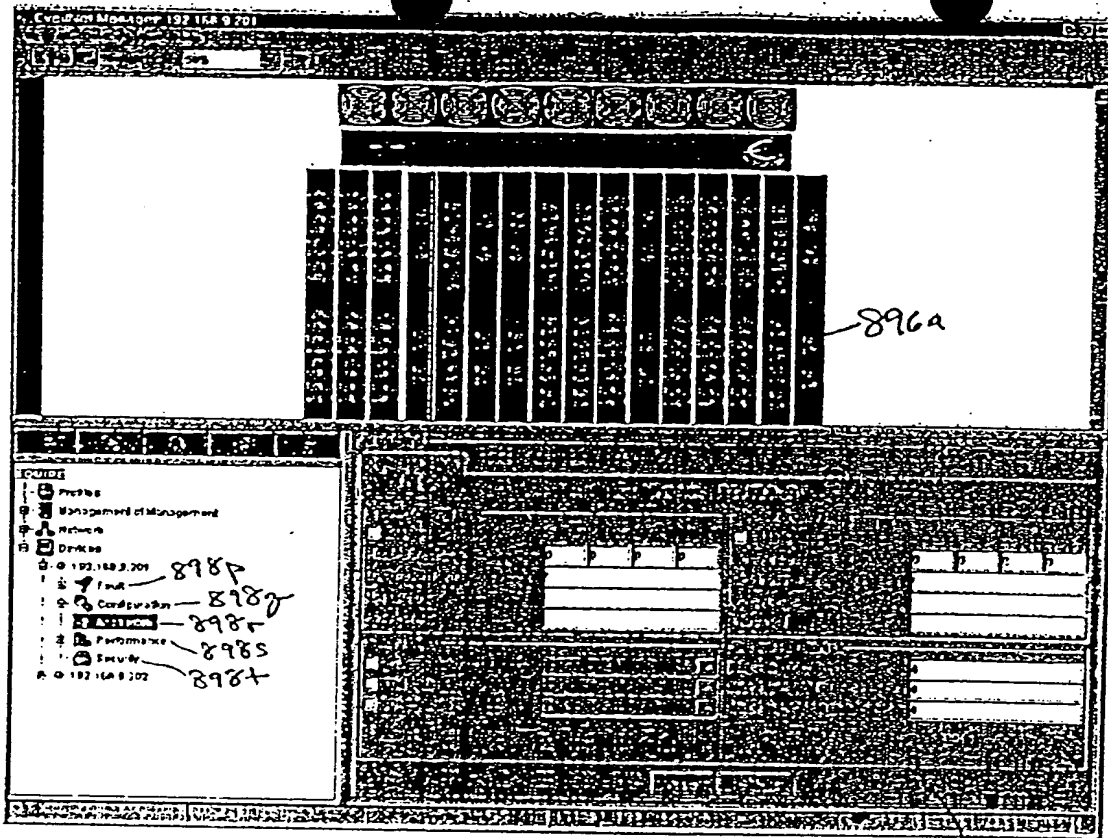


Fig. 7K

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Fig. 7L

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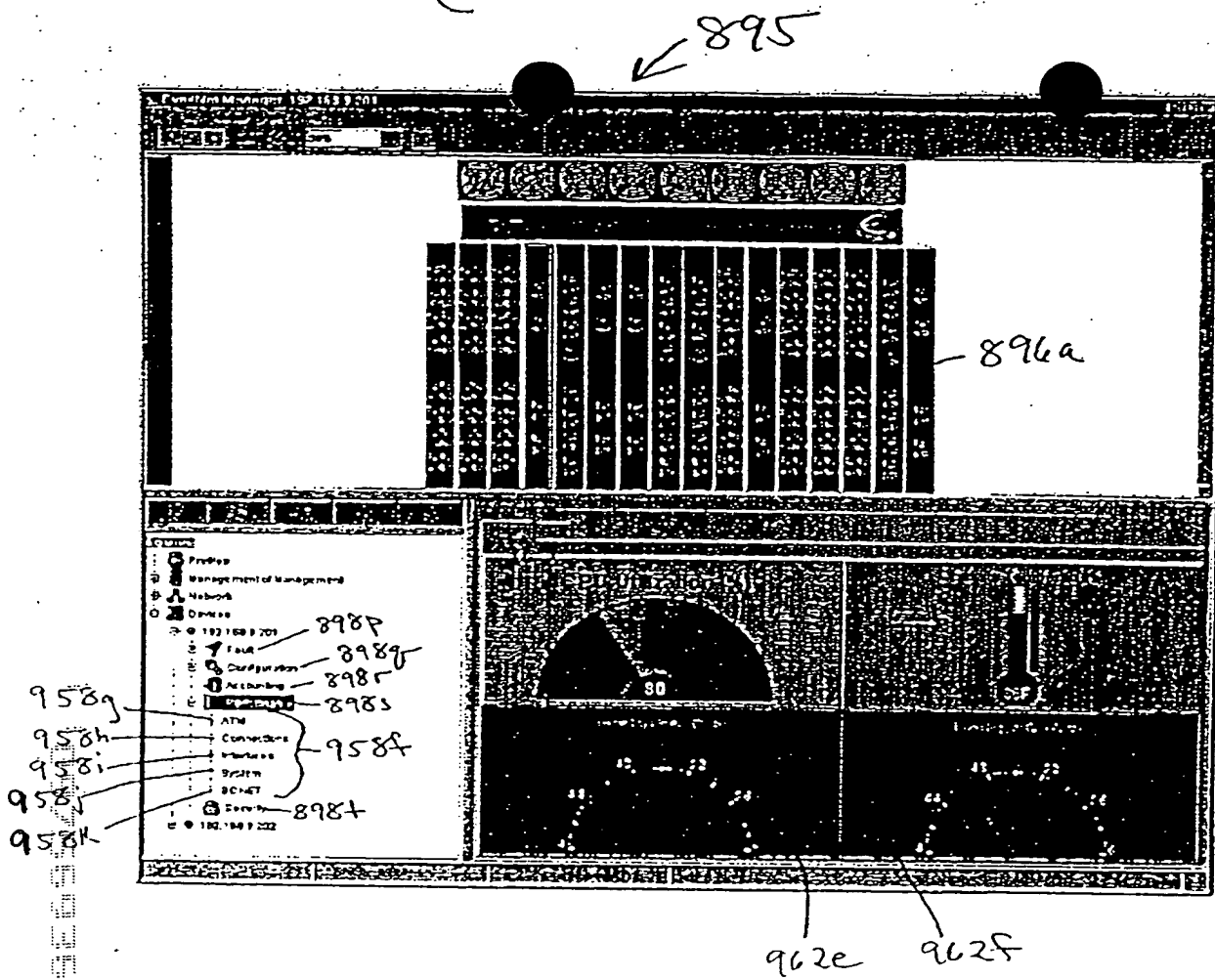


Fig. 7m

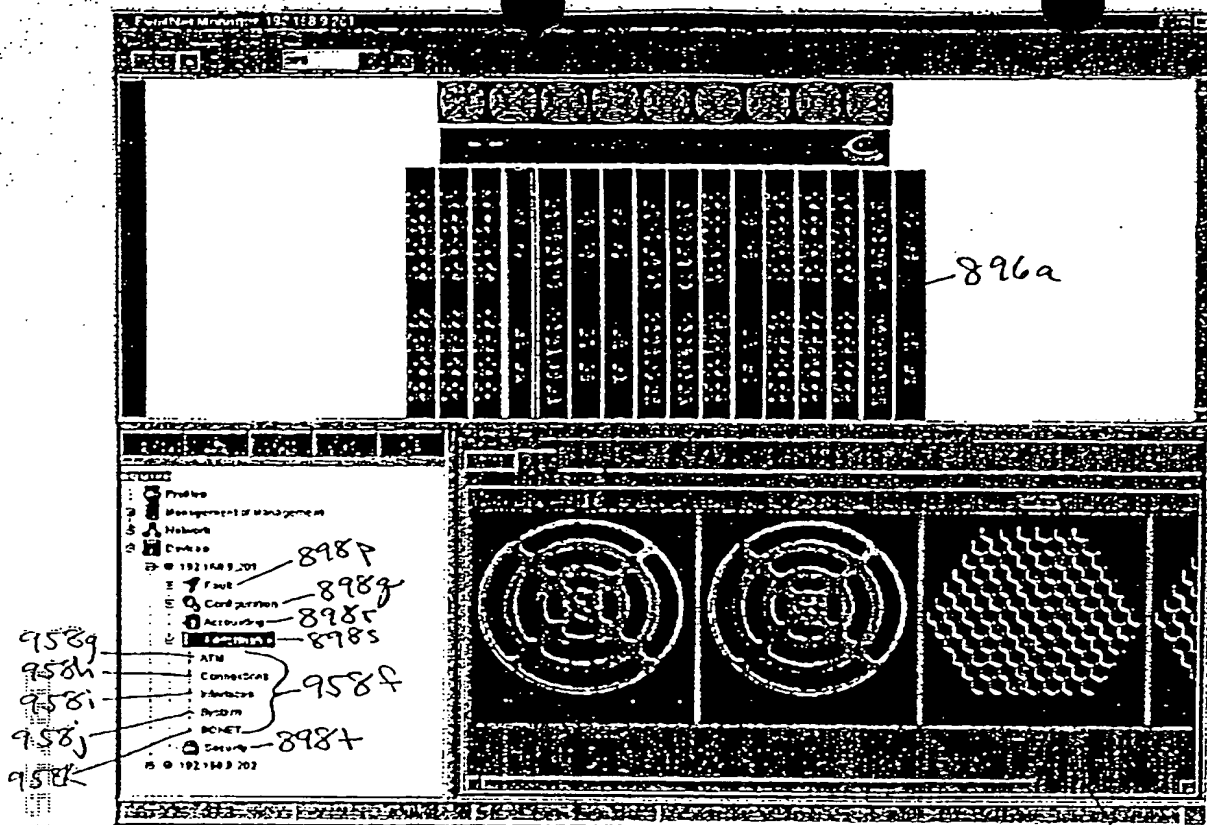


Fig. 7n

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Fig. 70

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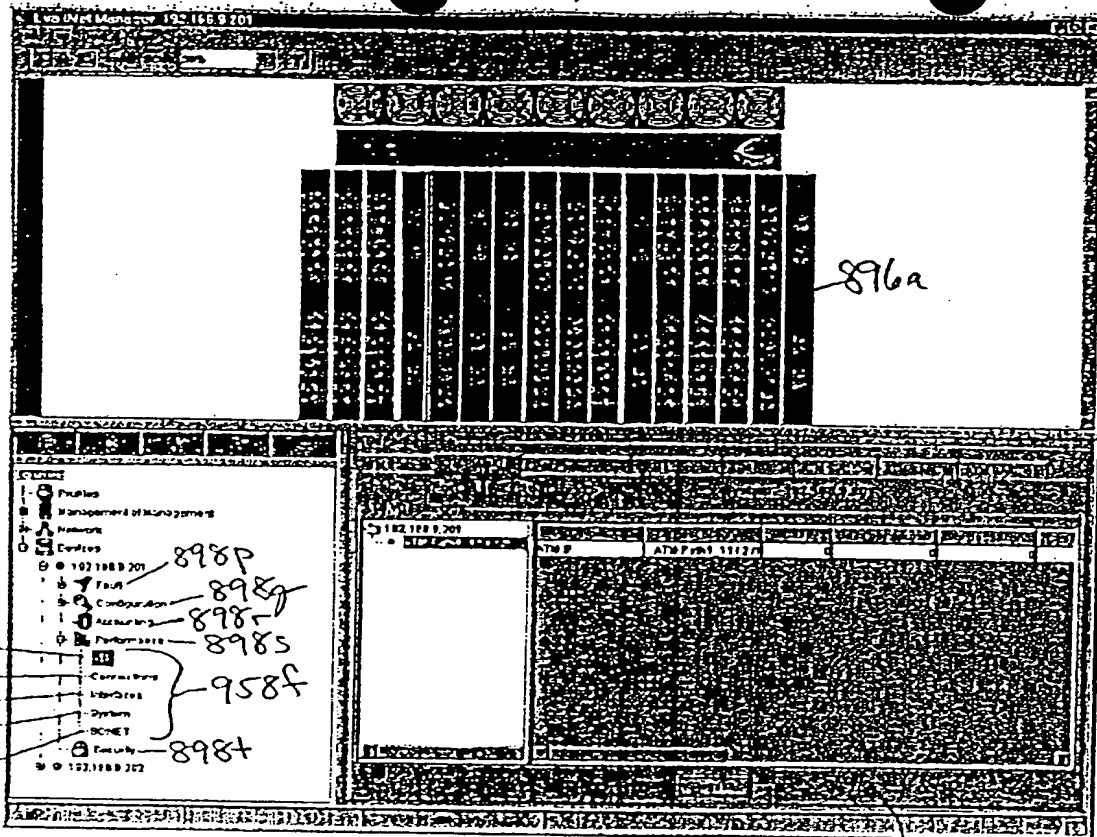
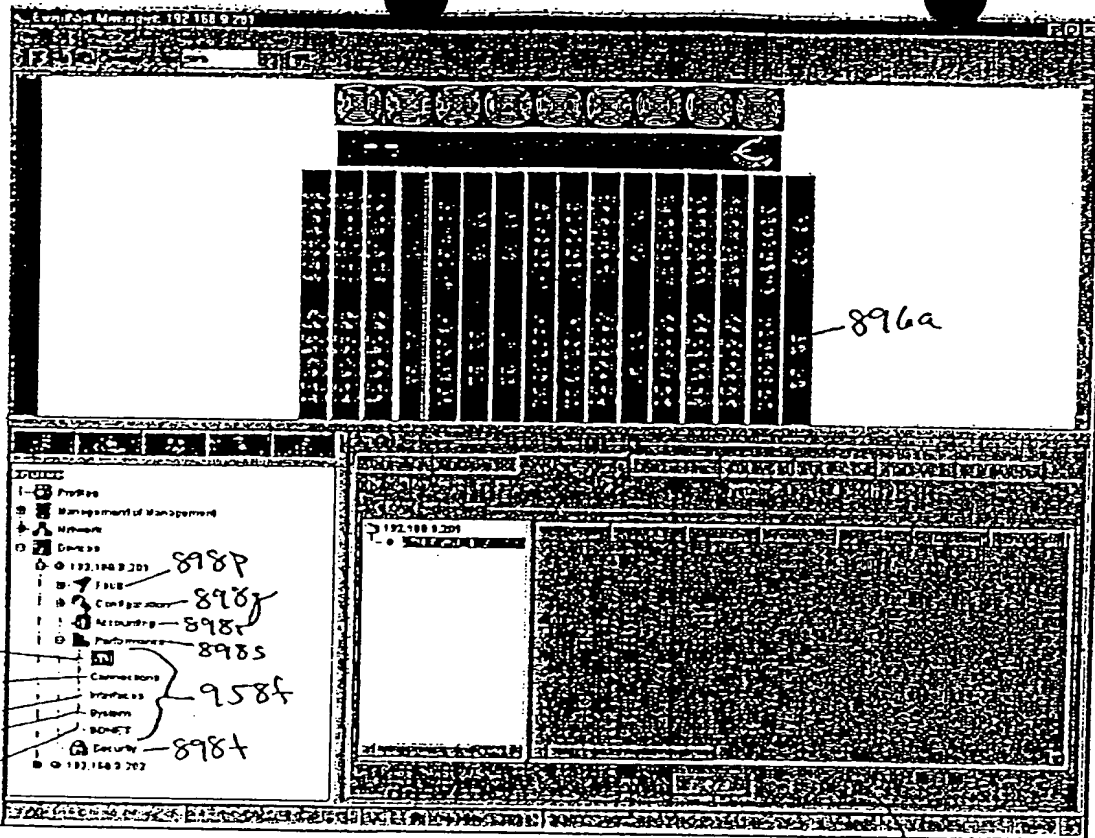


Fig. 7p

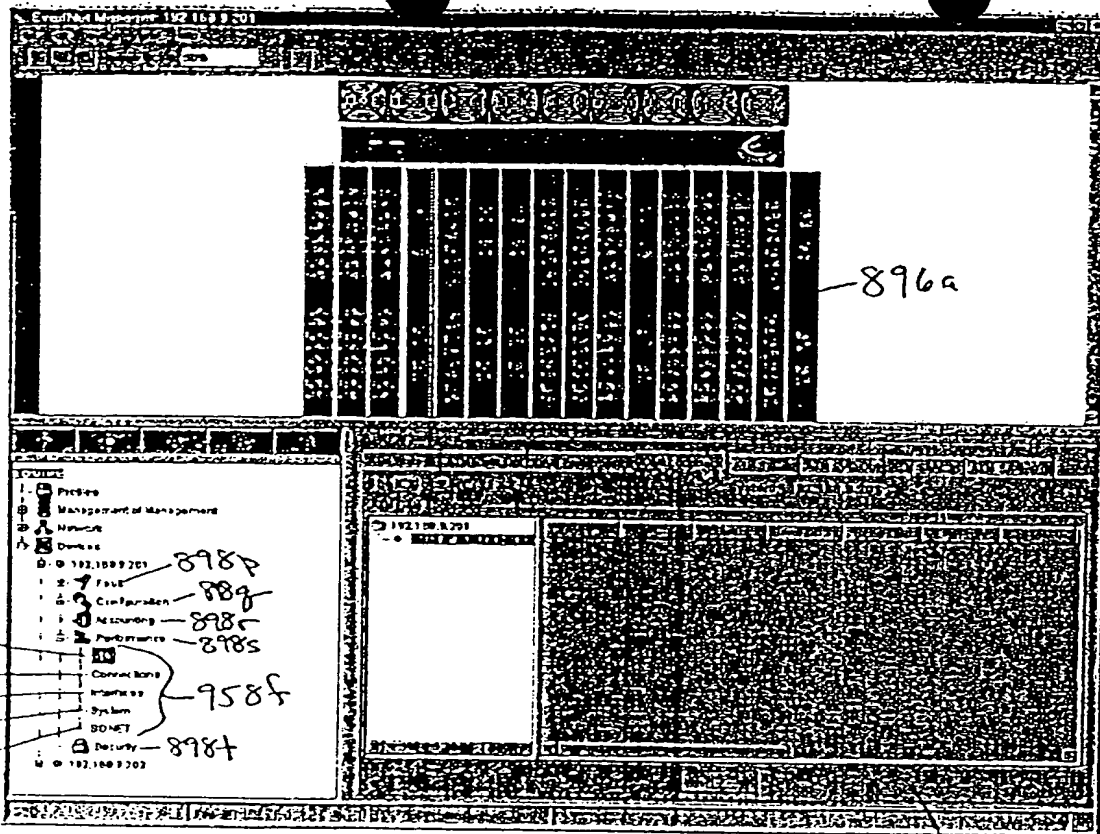
895



958g  
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958j  
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898q  
898r  
898s  
898t

Fig. 7g

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896a

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Fig. 7r



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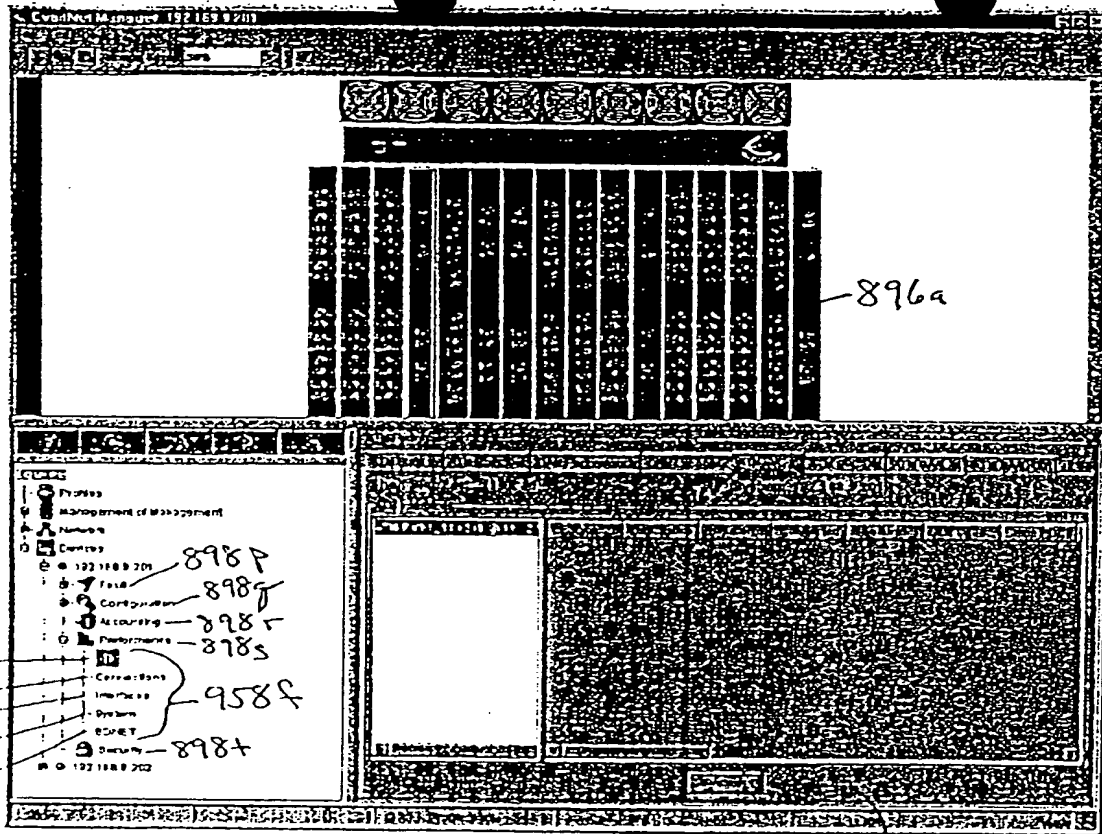
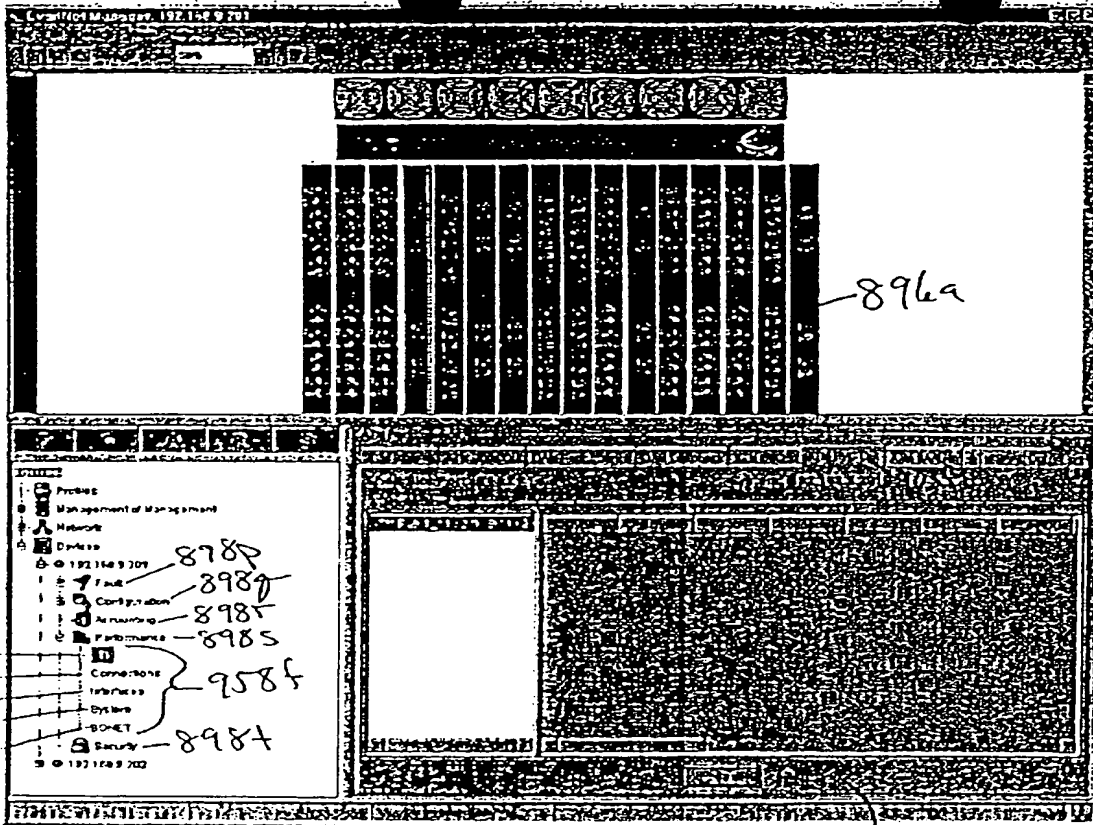


Fig. 7s

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Fig. 7+

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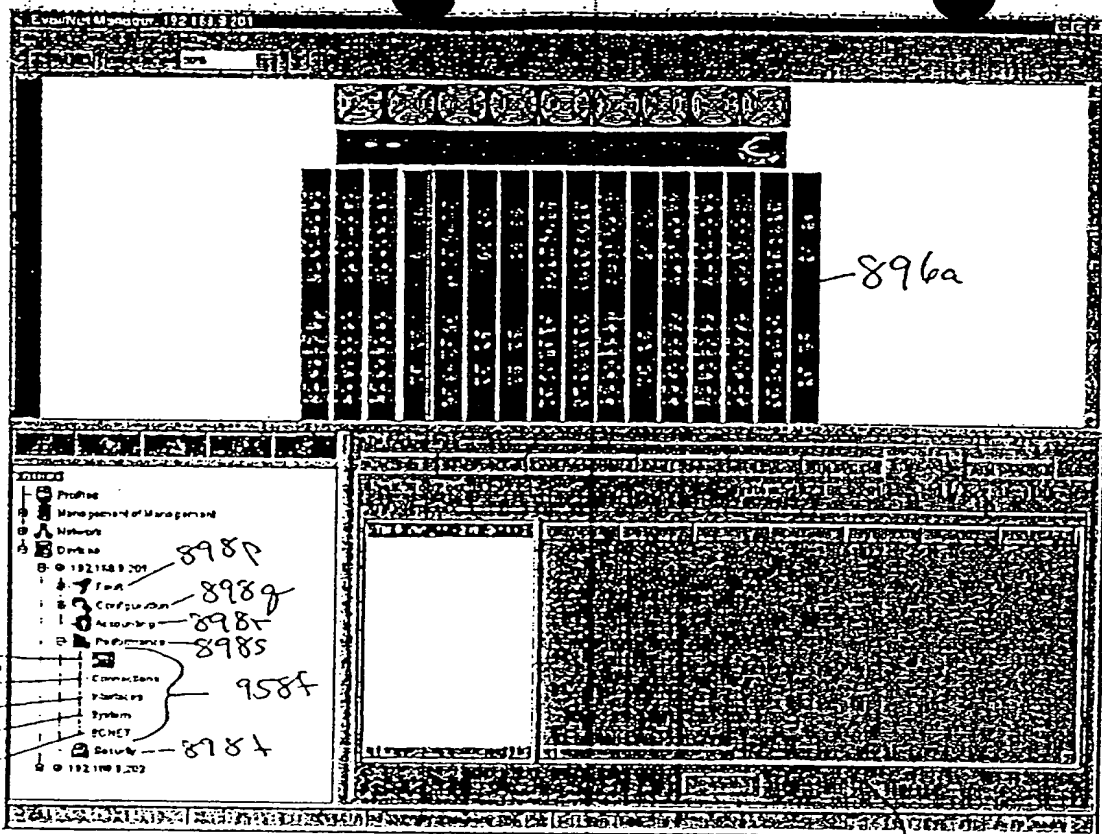
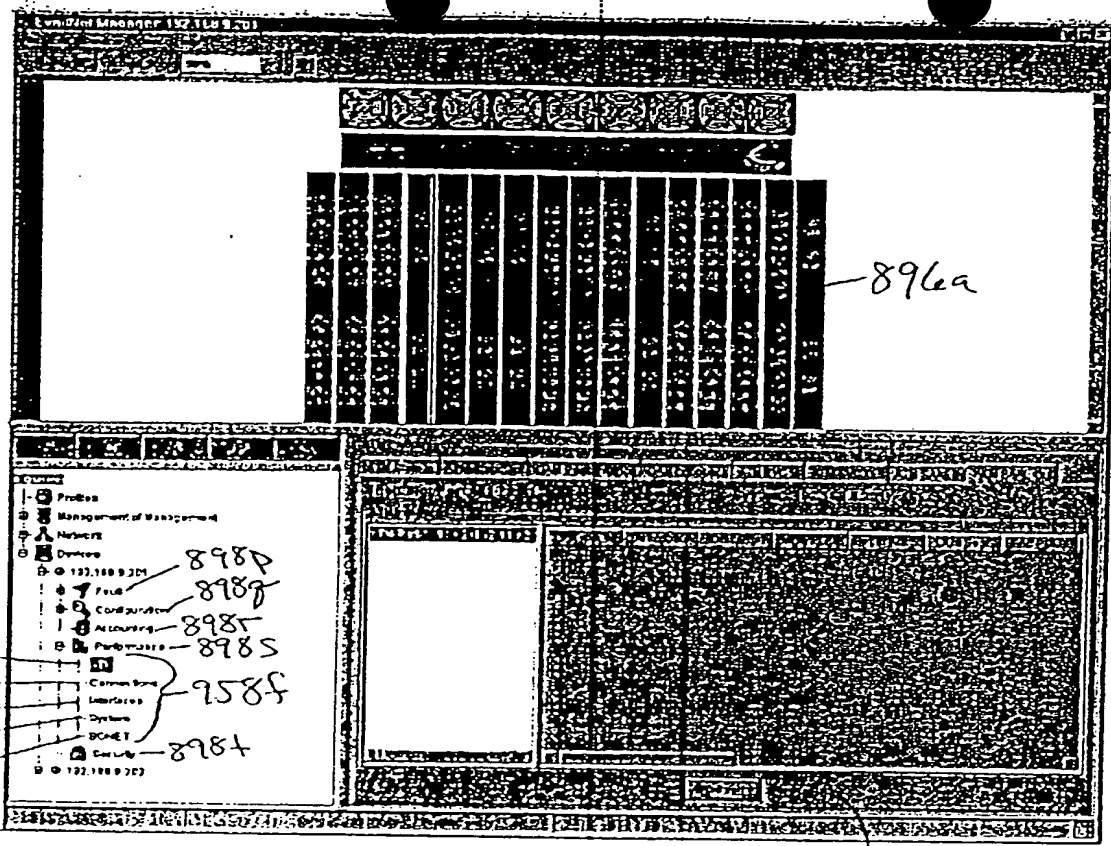


Fig. 7a

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958g  
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897

Fig. 7v

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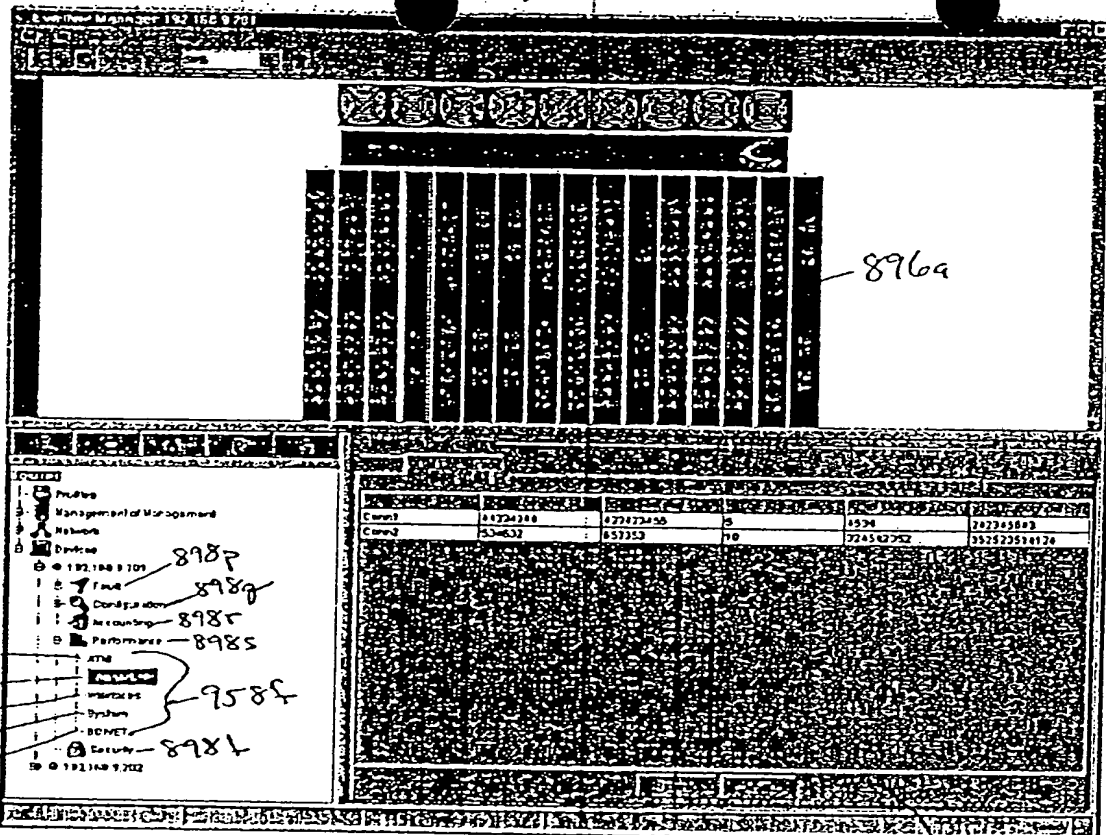
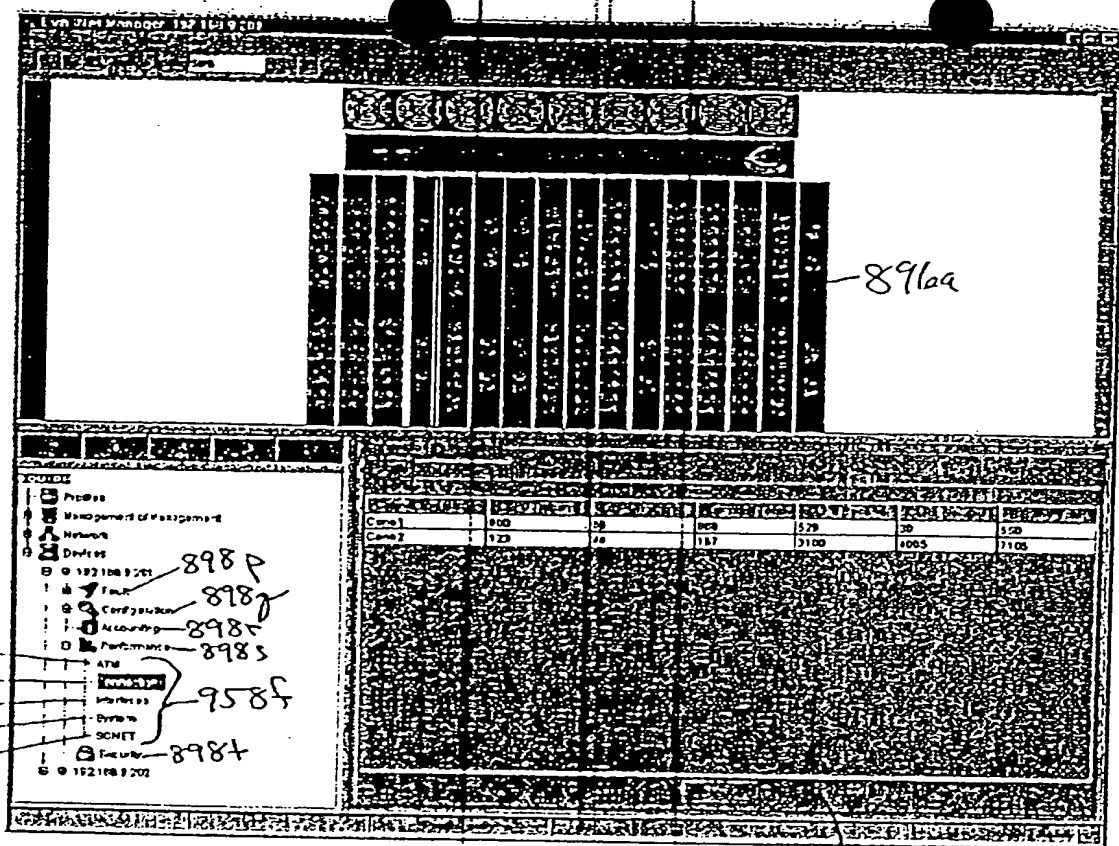


Fig. 7w

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Fig. 7x

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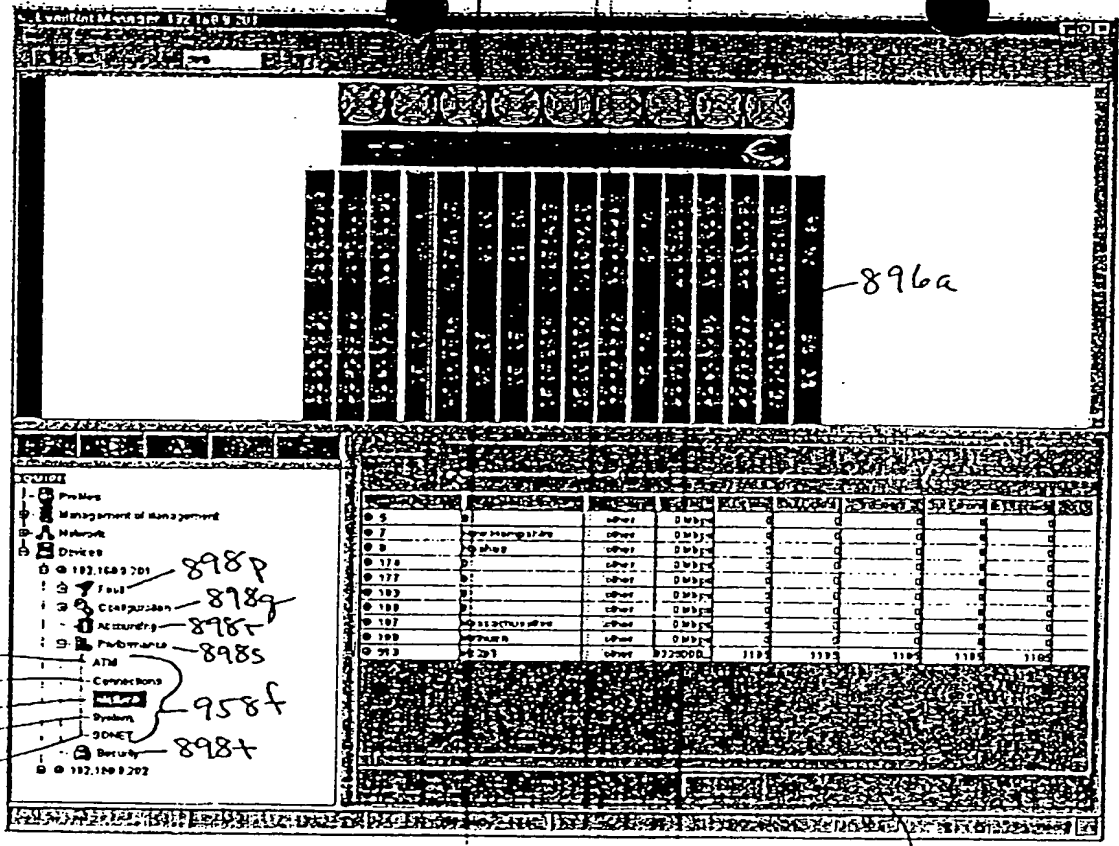


Fig. 7y

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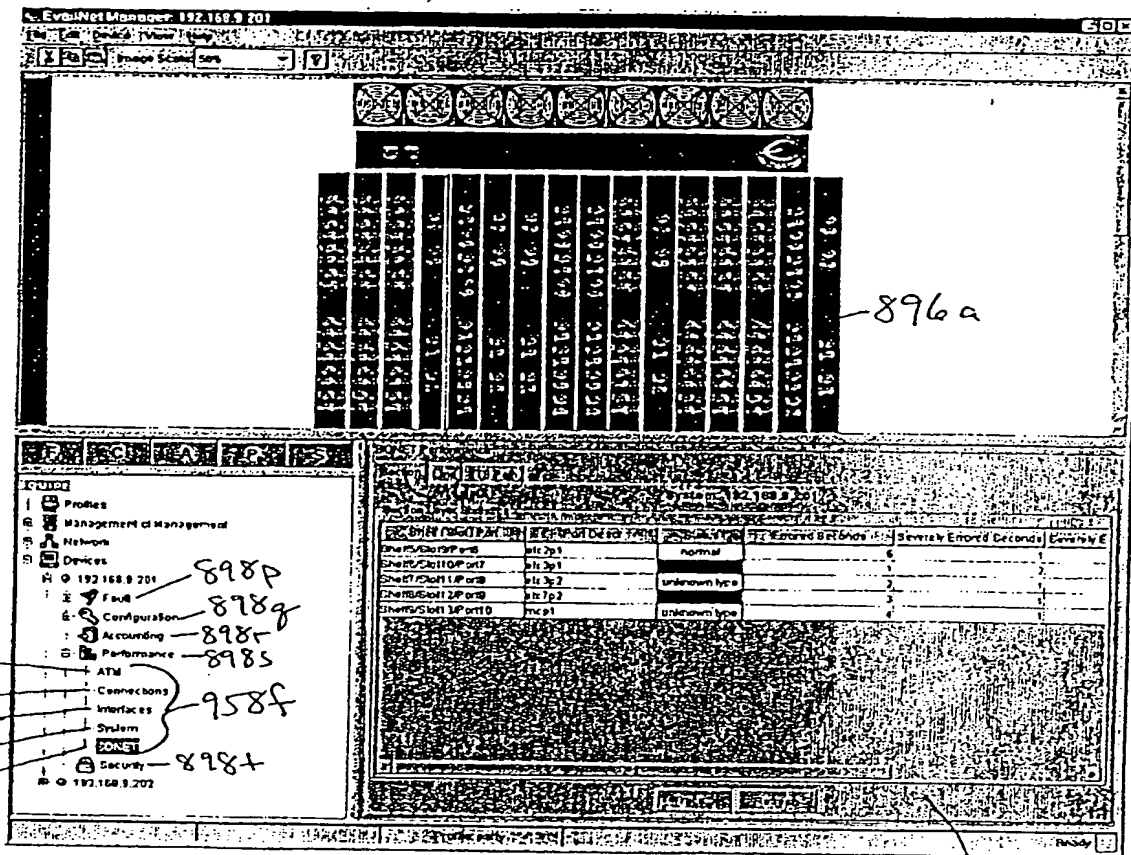


Fig. 8a



[illegible]

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Fig. 8b

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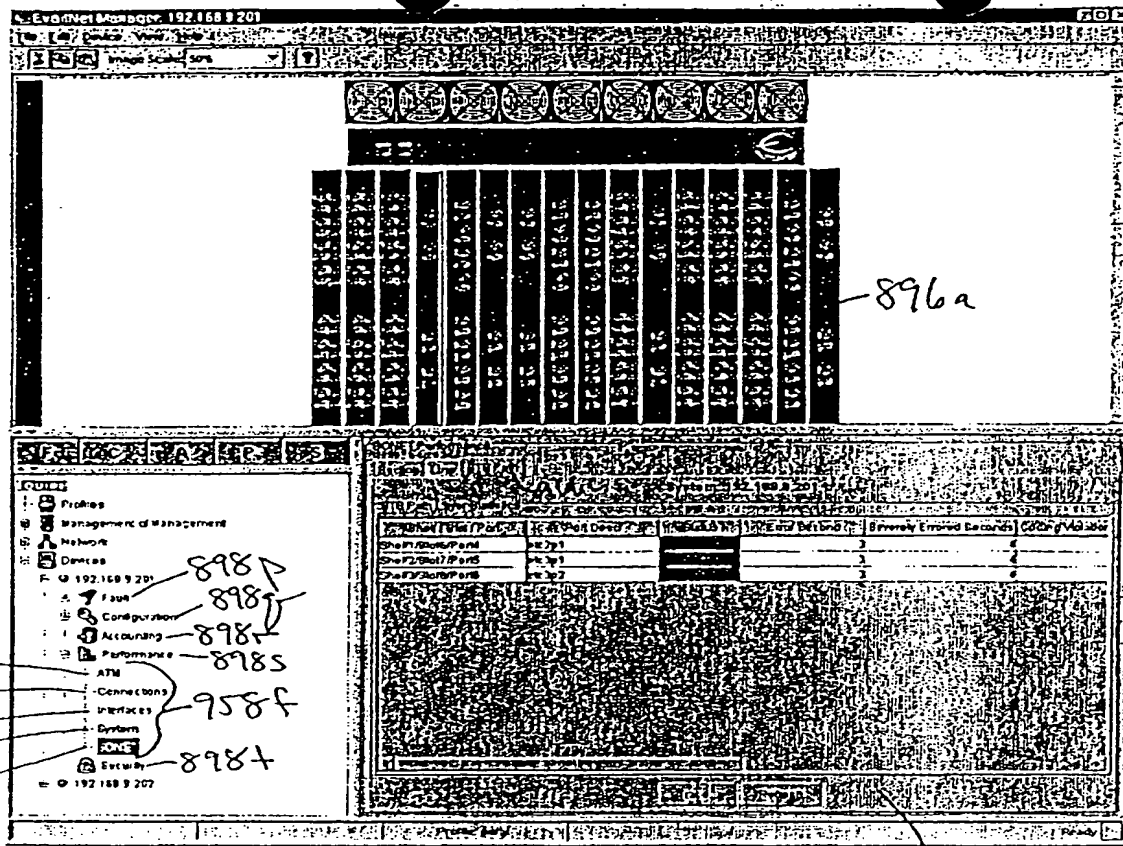
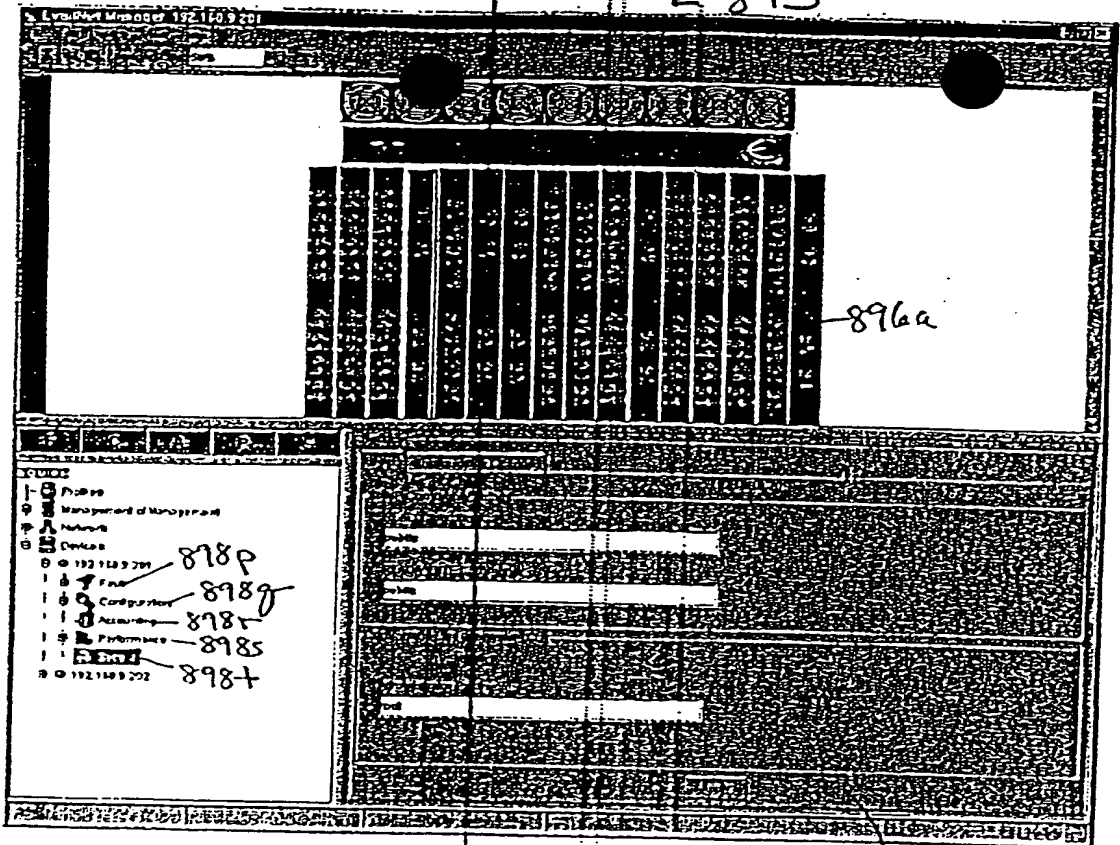


Fig. 8c

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897

Fig. 8d

00756036 040001

The image displays two screenshots from a Windows 95 desktop environment. The top screenshot shows the 'Control Panel' window with the 'System' icon highlighted. The bottom screenshot shows the 'System' control panel window. On the left side of the bottom screenshot, there is a list of system components with handwritten red annotations next to them: 'Process' (898P), 'Management of Management' (898F), 'Networks' (898V), 'Devices' (898S), '192.168.0.201' (898T), 'Fax' (898P), 'Card Reader' (898F), 'Acoustic' (898V), 'Performance' (898S), and '192.168.0.202' (898T). The main area of the 'System' window shows various system information fields, including 'Changed Part No.', '22:08 11-18-99', 'Device', and '192.168.1.229'.

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Fig. 8e



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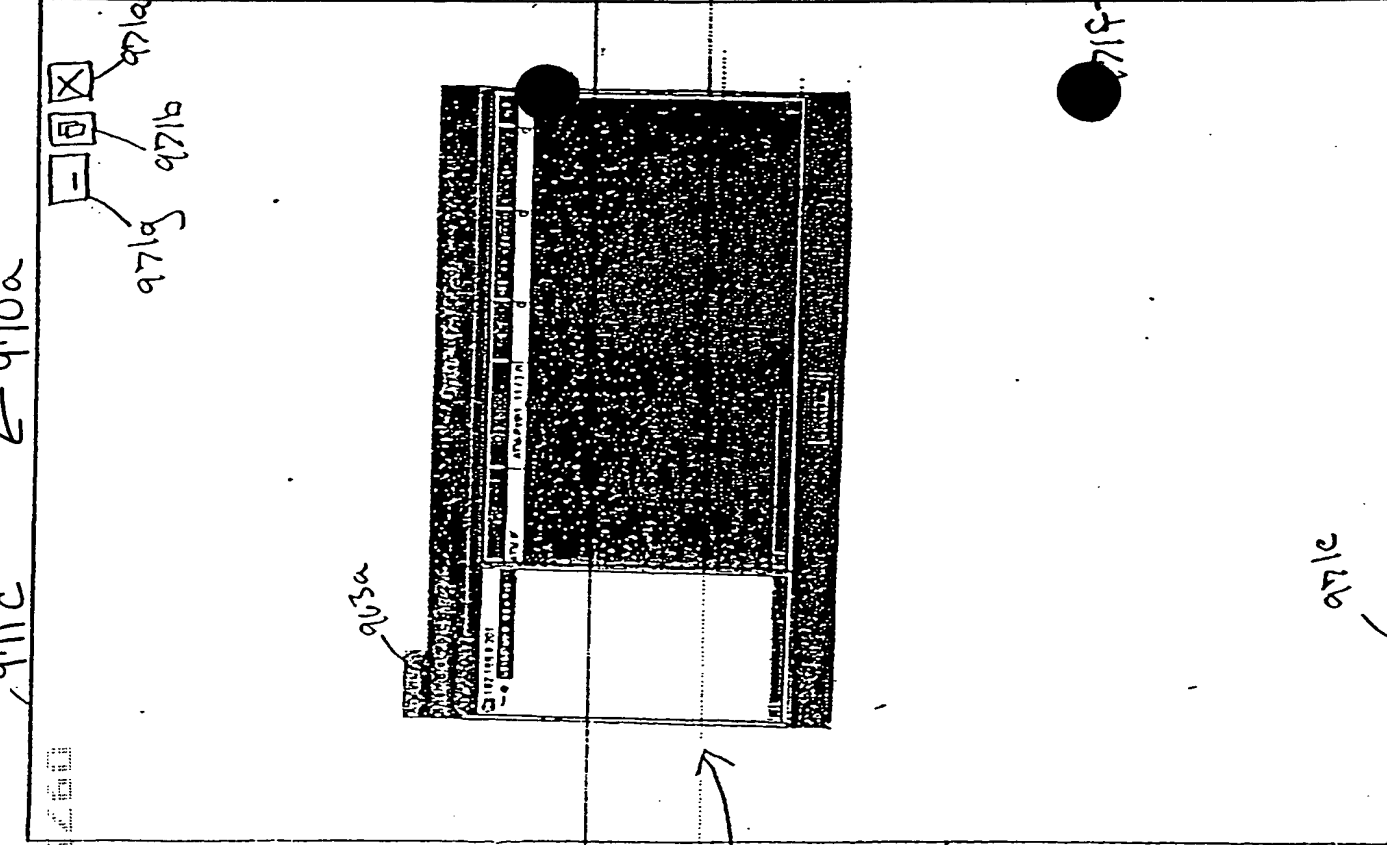
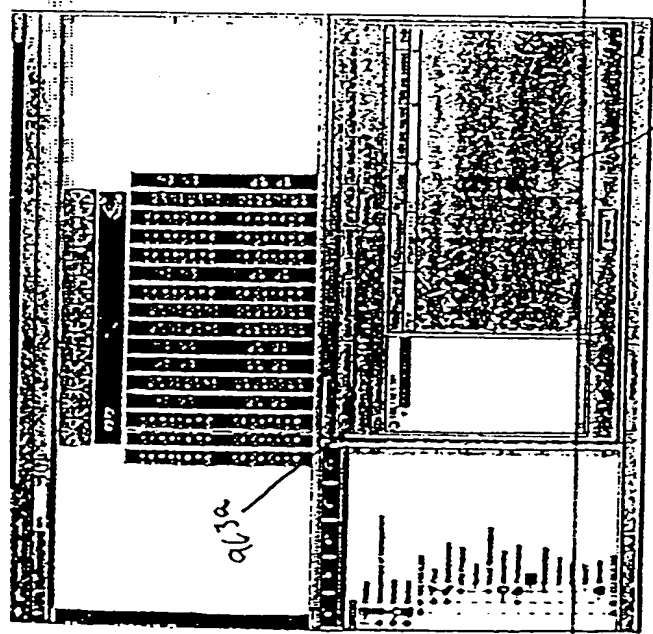
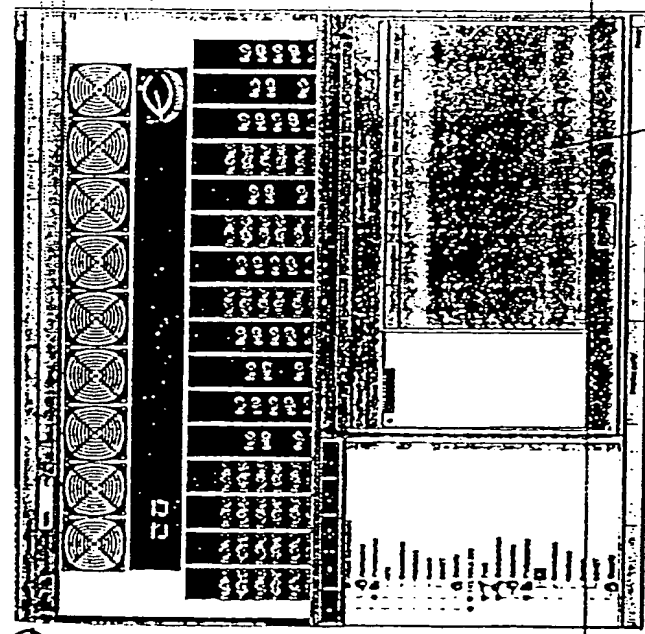
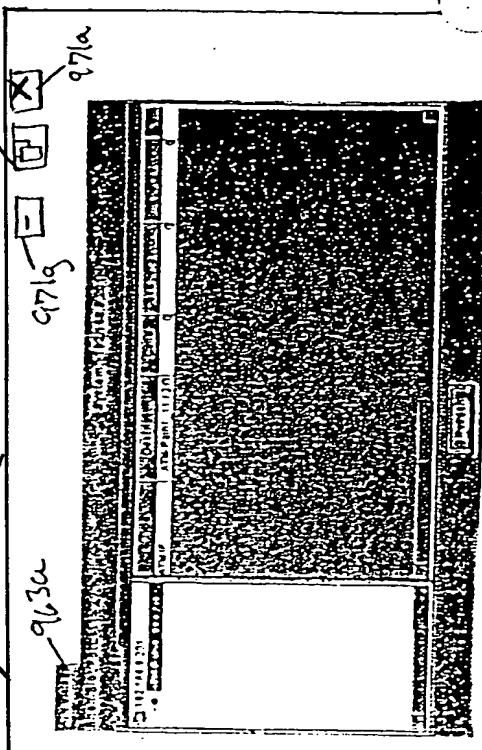


Fig. 9b



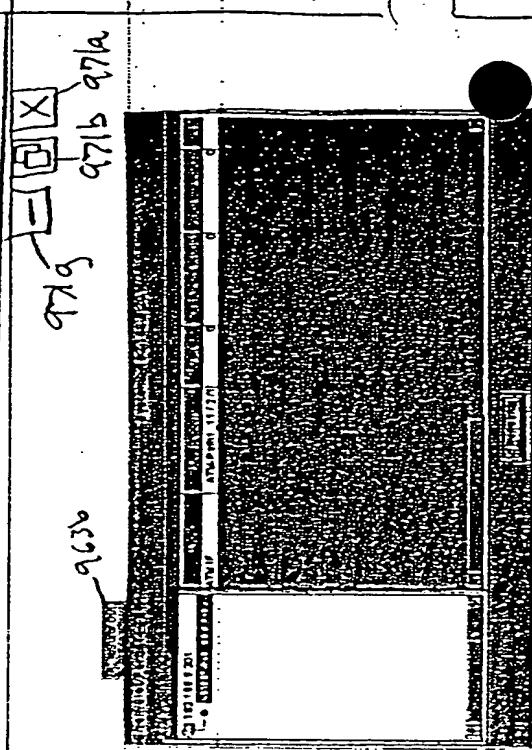
895



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971g

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963b

971g

971b 971a

Fig. 9c

969b

971d

971c

971f

895 →

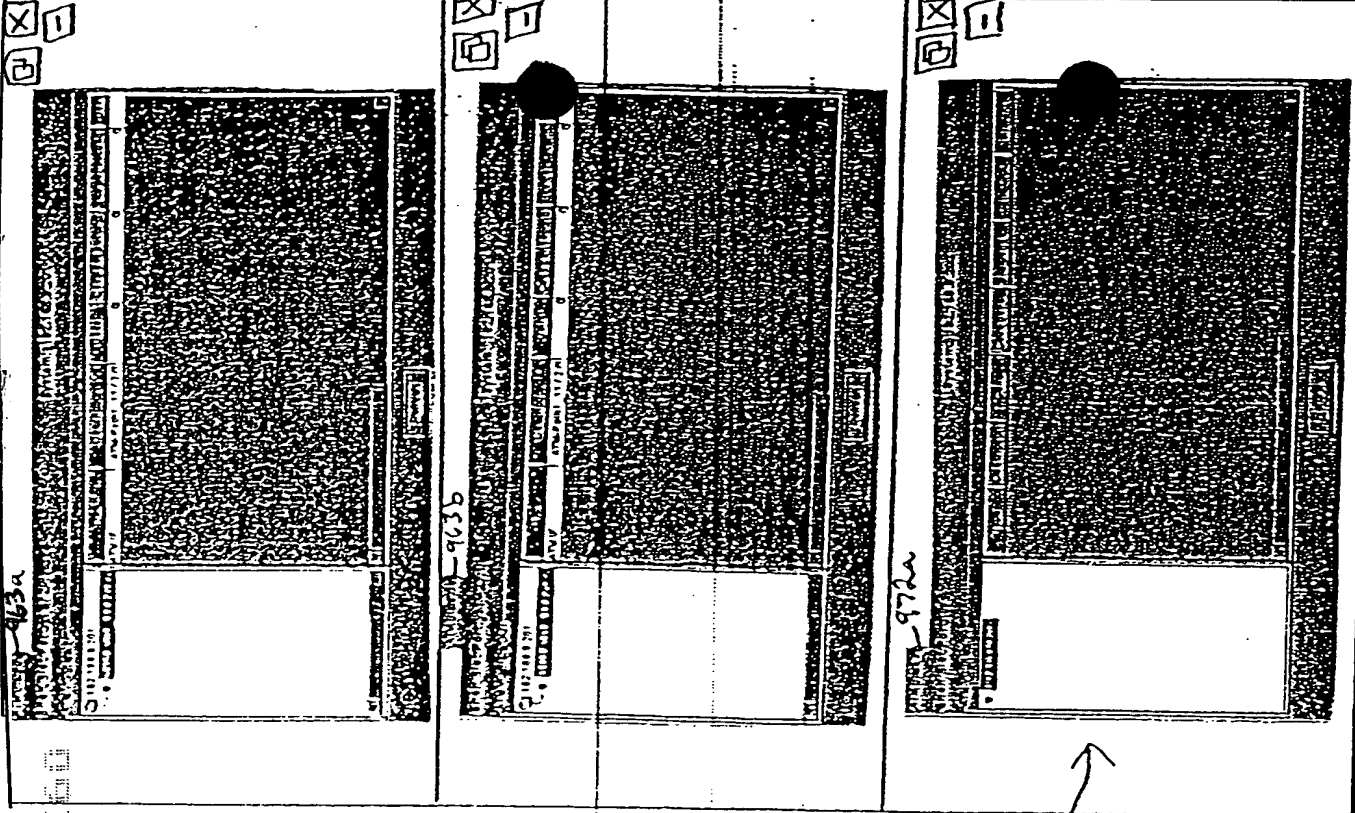
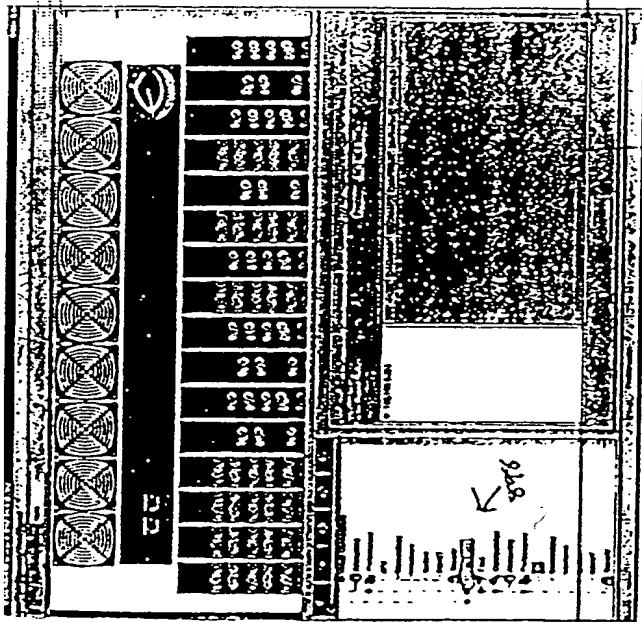


Fig. 9d

969c



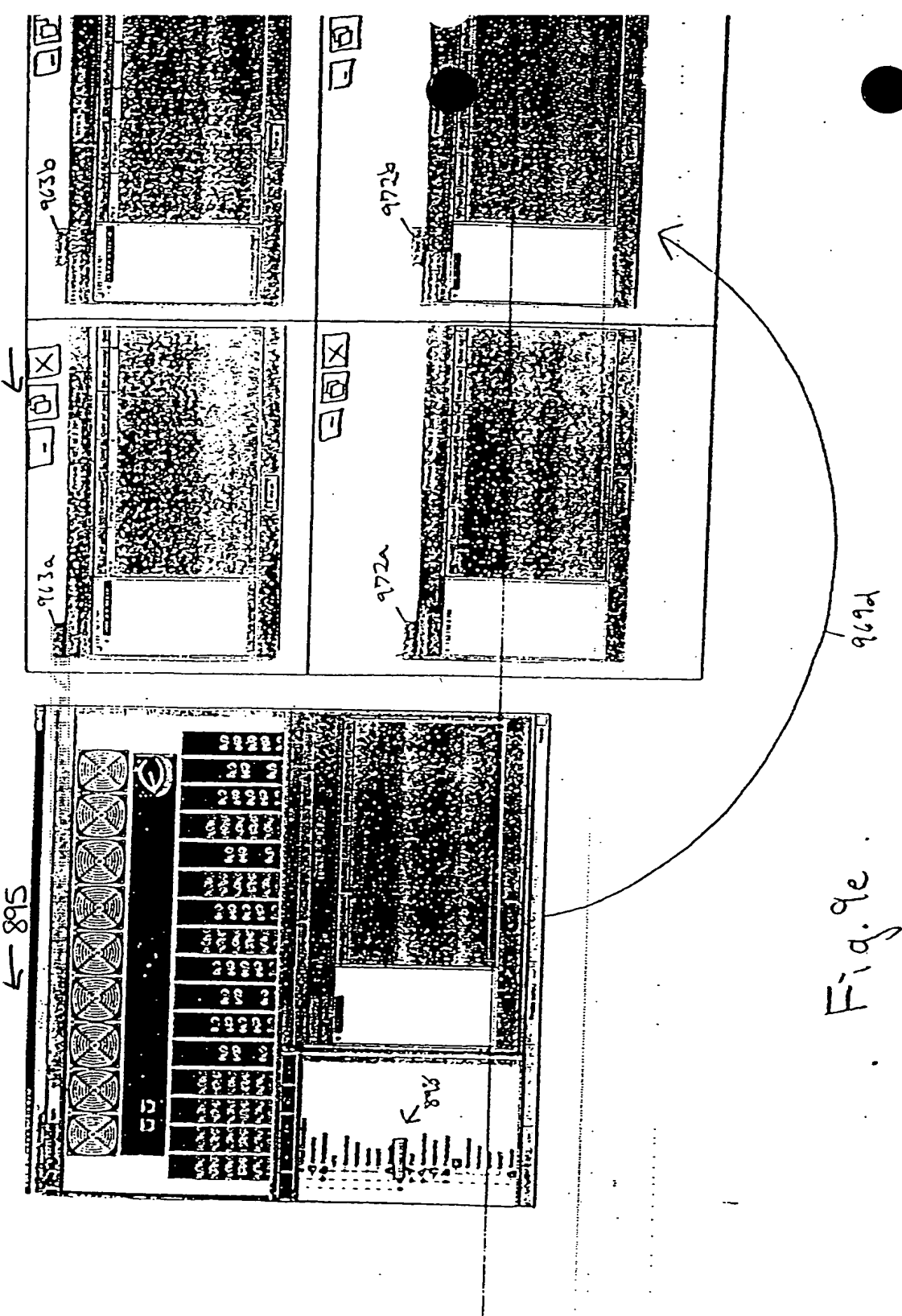
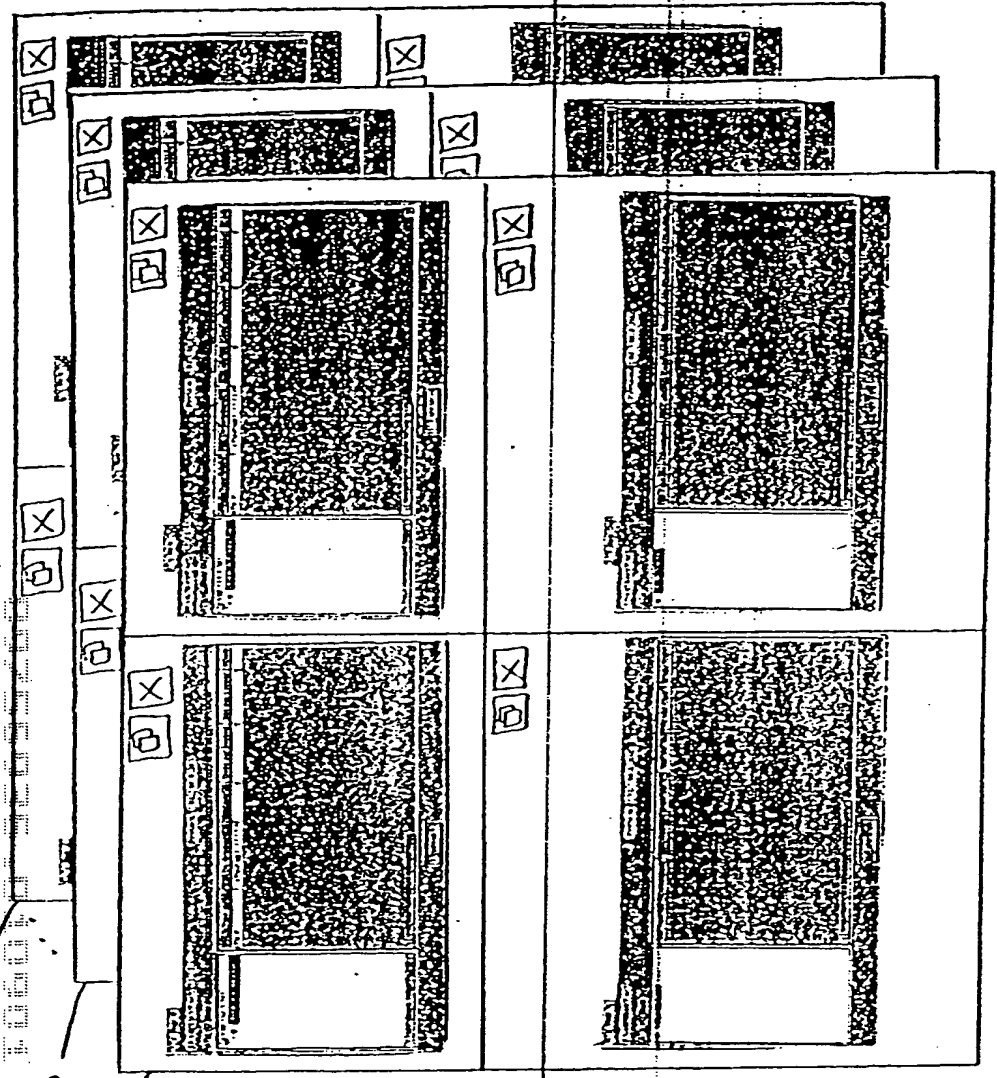


Fig. 9e.

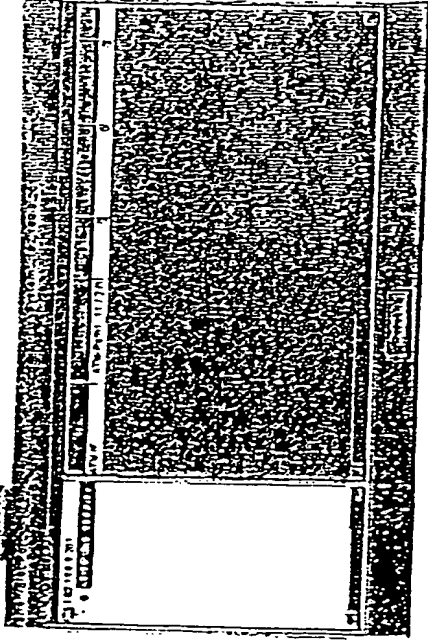


970b

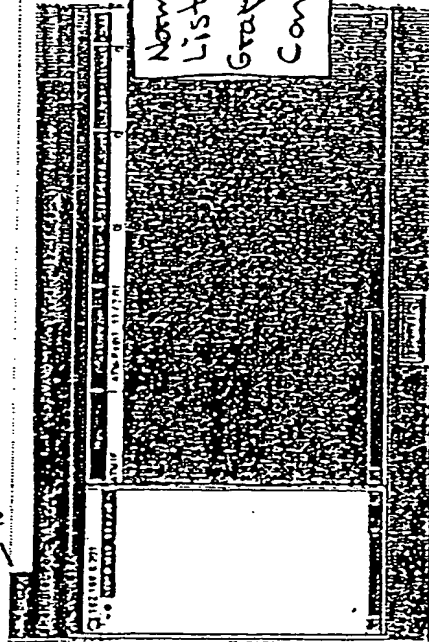
970a

Fig. 9f

FIG. 9g



9/3a



973

Normal  
List  
Graph  
Config

973a

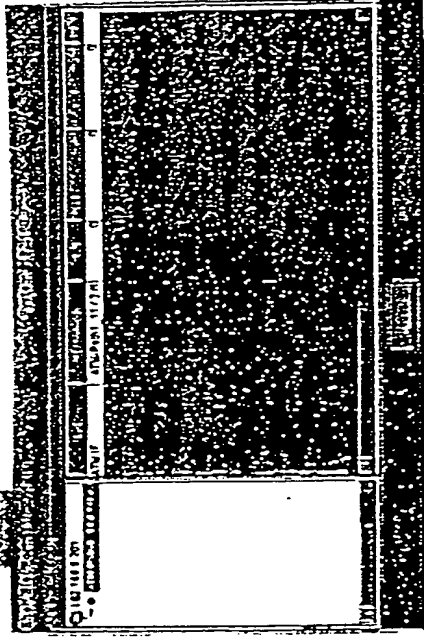
973b

973c

973d

Fig. 9g

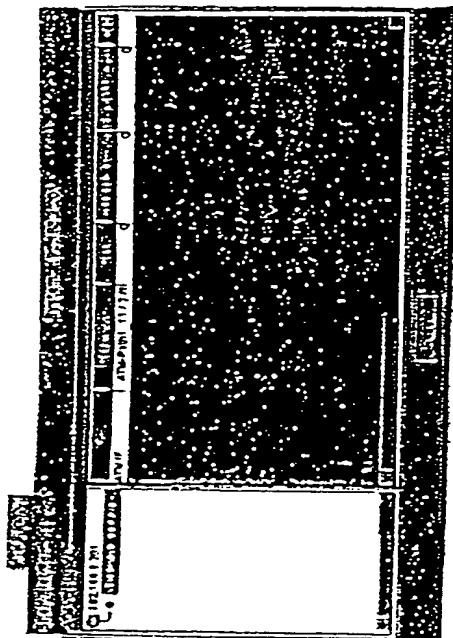
☐ ☐ ☐



• • •

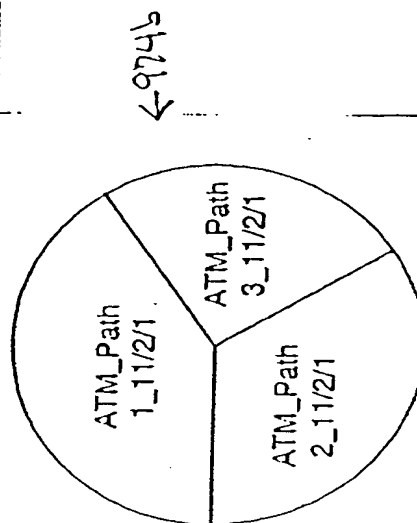
-974a

॥

[illegible]

☐ ☐ ☐

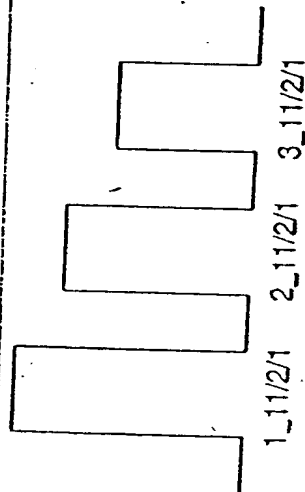
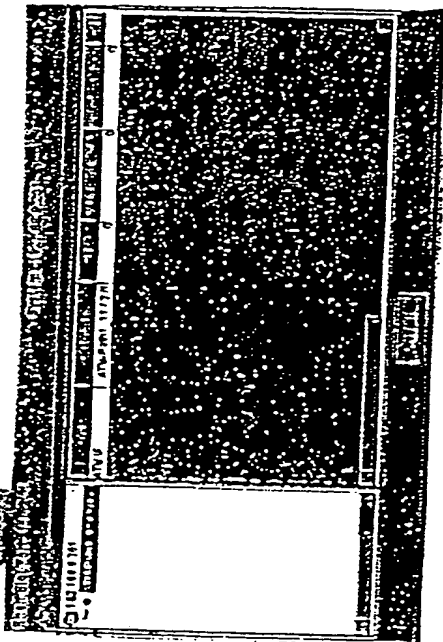
# Cells Per Second



← 9746

५०

☒ 1  
☒ 2  
☐ 3

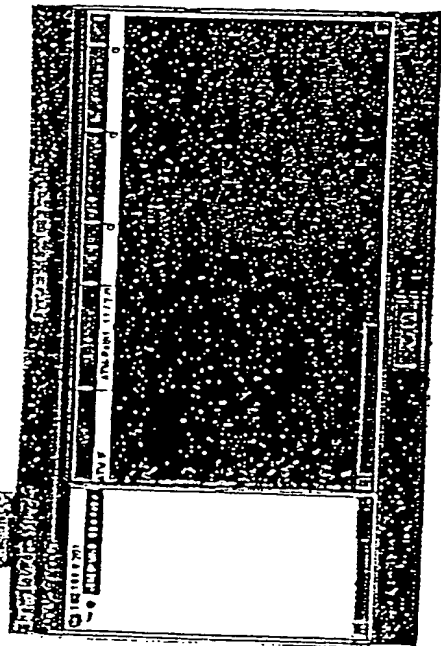


11-2

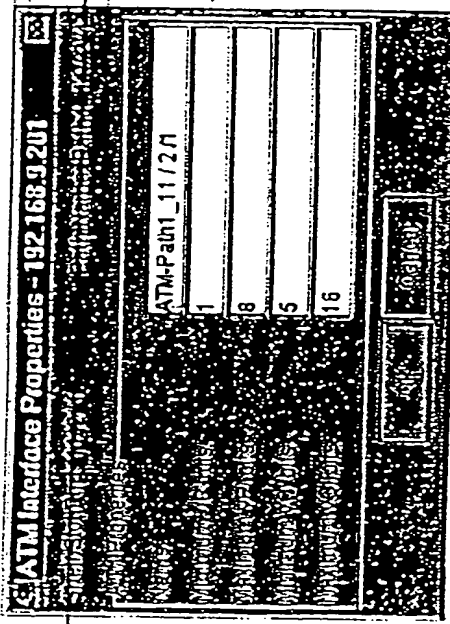
ATM\_Path  
Cells Per Second

X  
B  
-

100150-92999260



X  
B  
-



9748

Fig. 9K

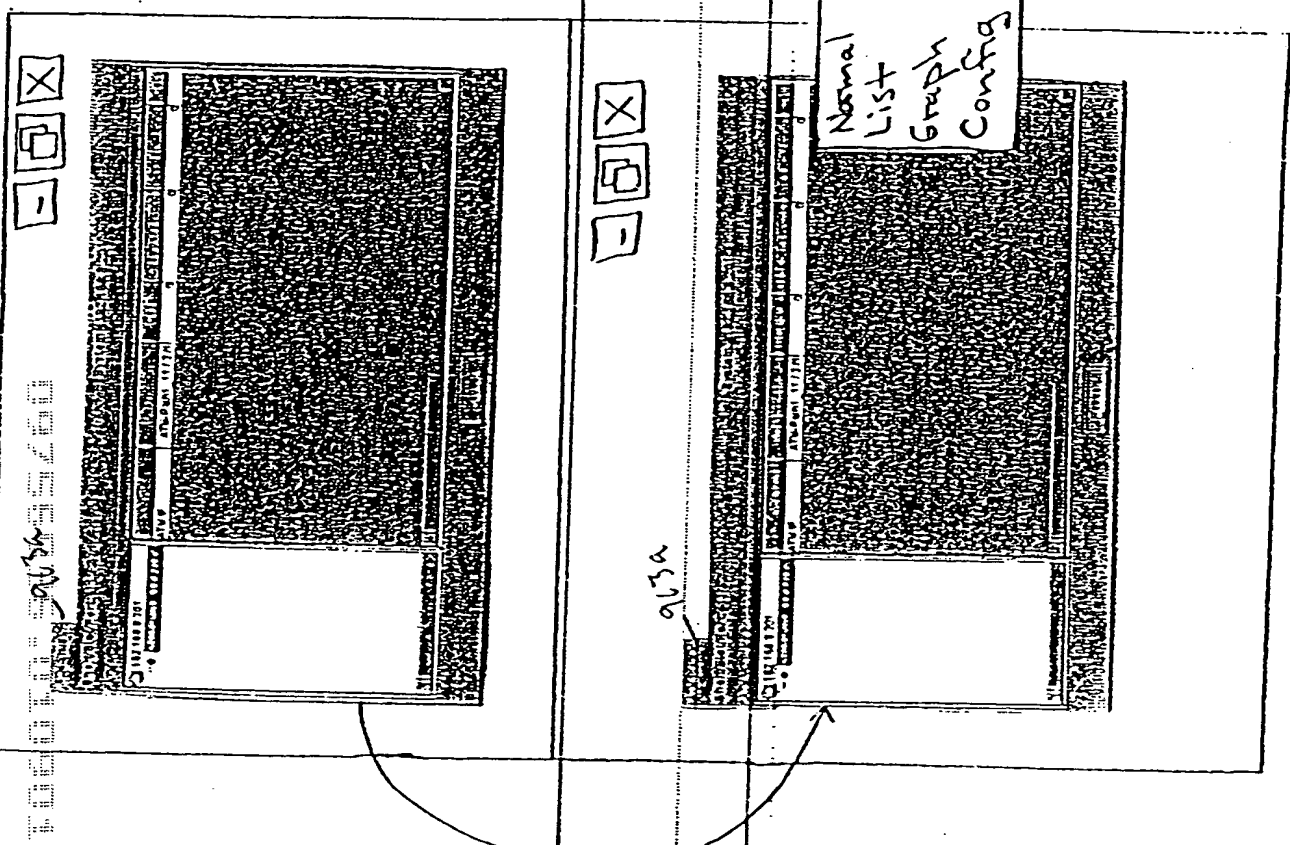


Fig. 91



System: 192.168.9.201

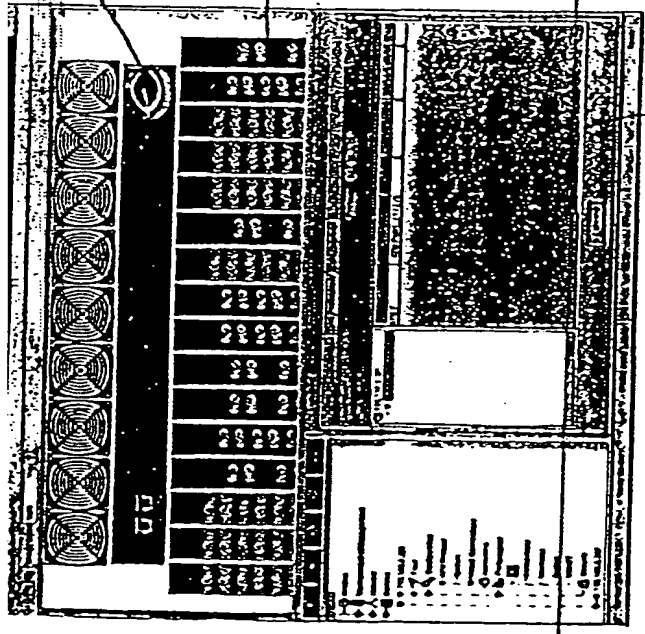
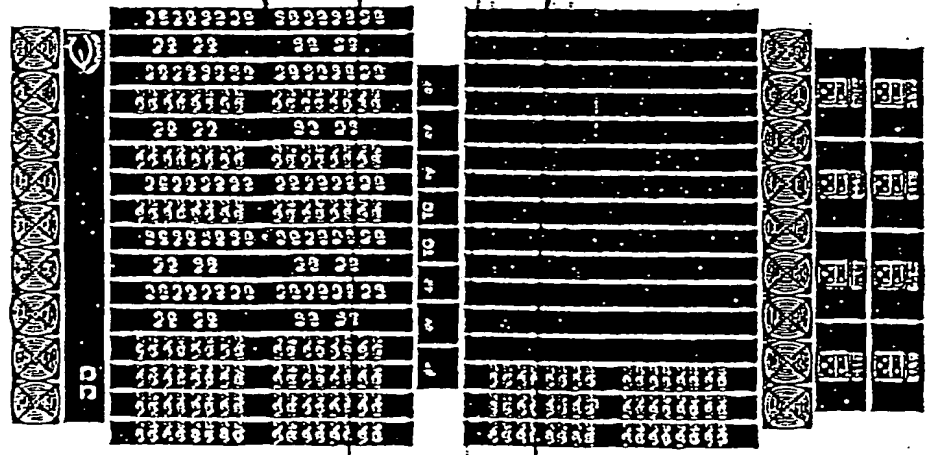
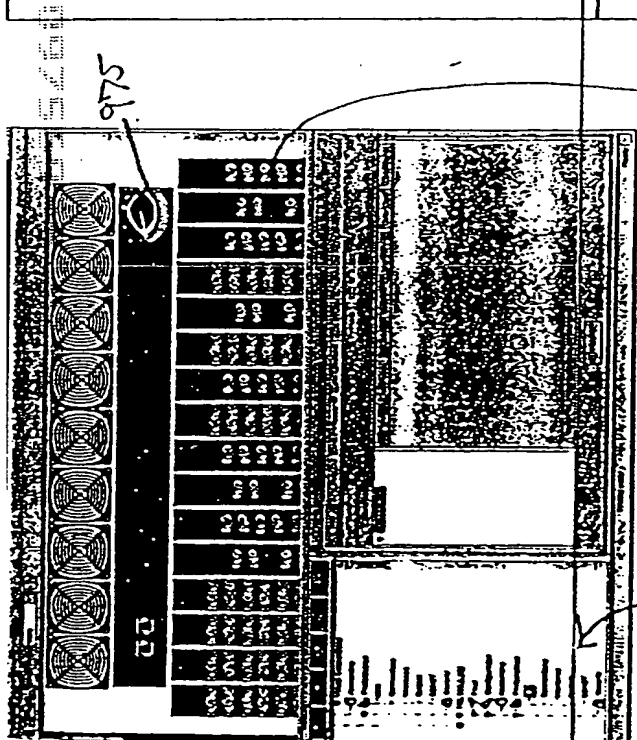
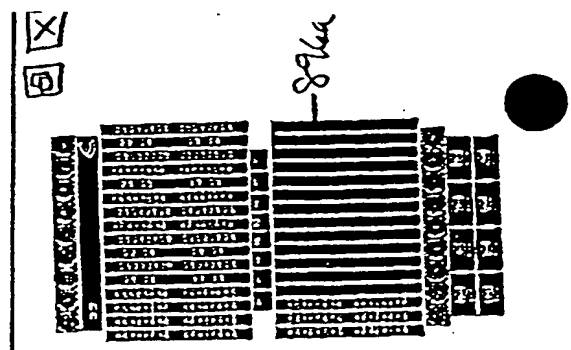


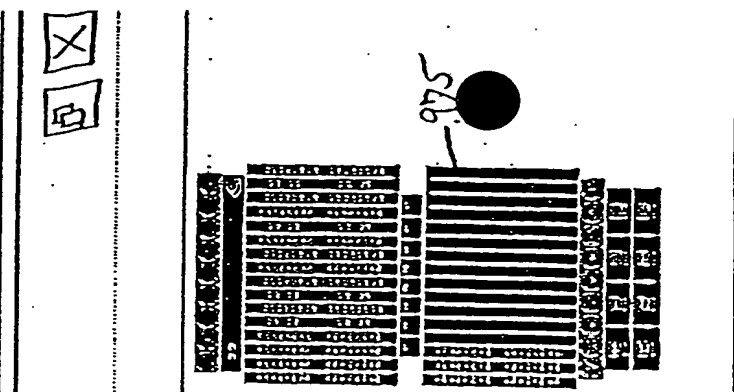
Fig. 9m



System:  
192.168.9.201



System:  
192.168.9.202



9699

Fig. 9n

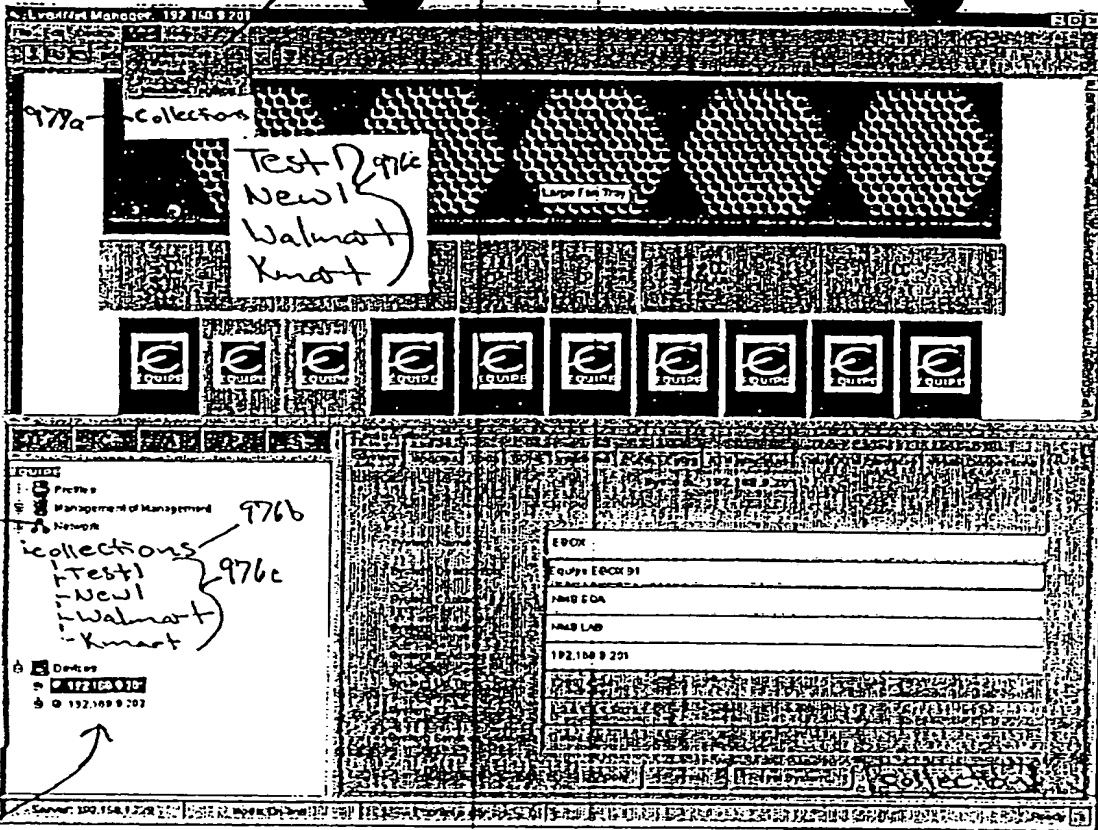


Fig. 10a

895

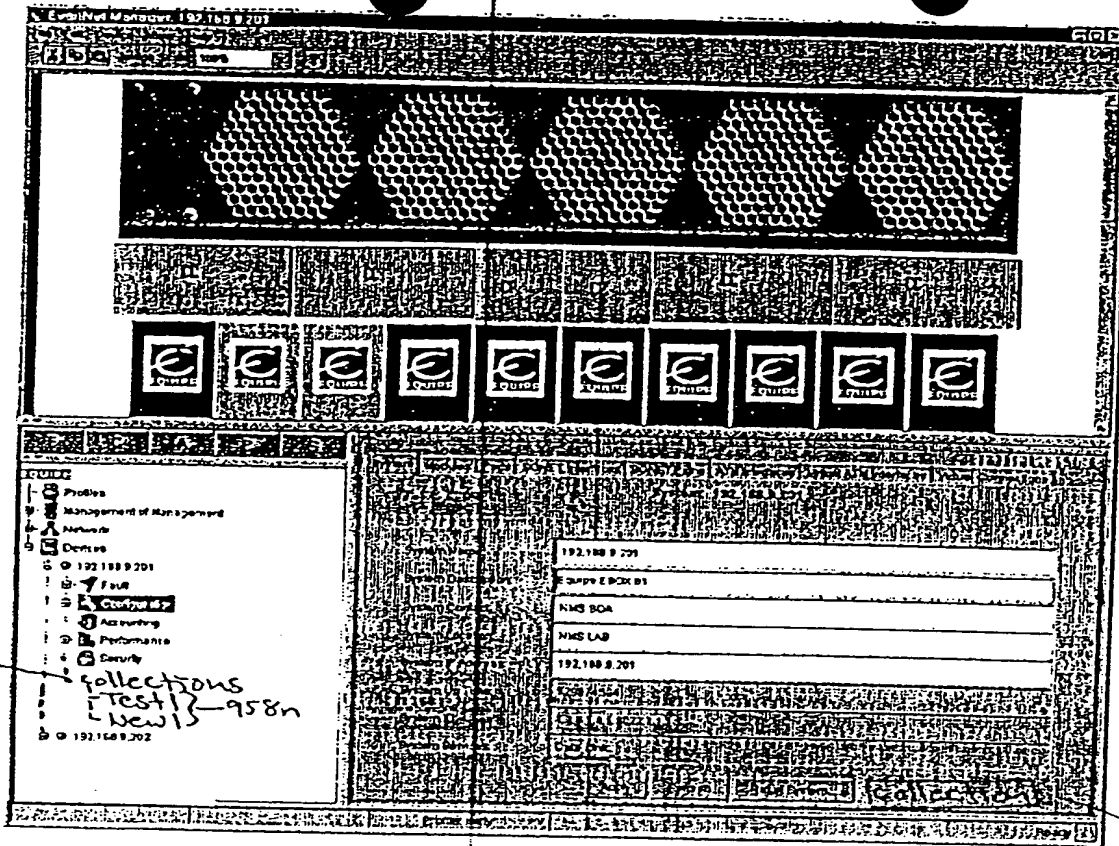


Fig. 10b

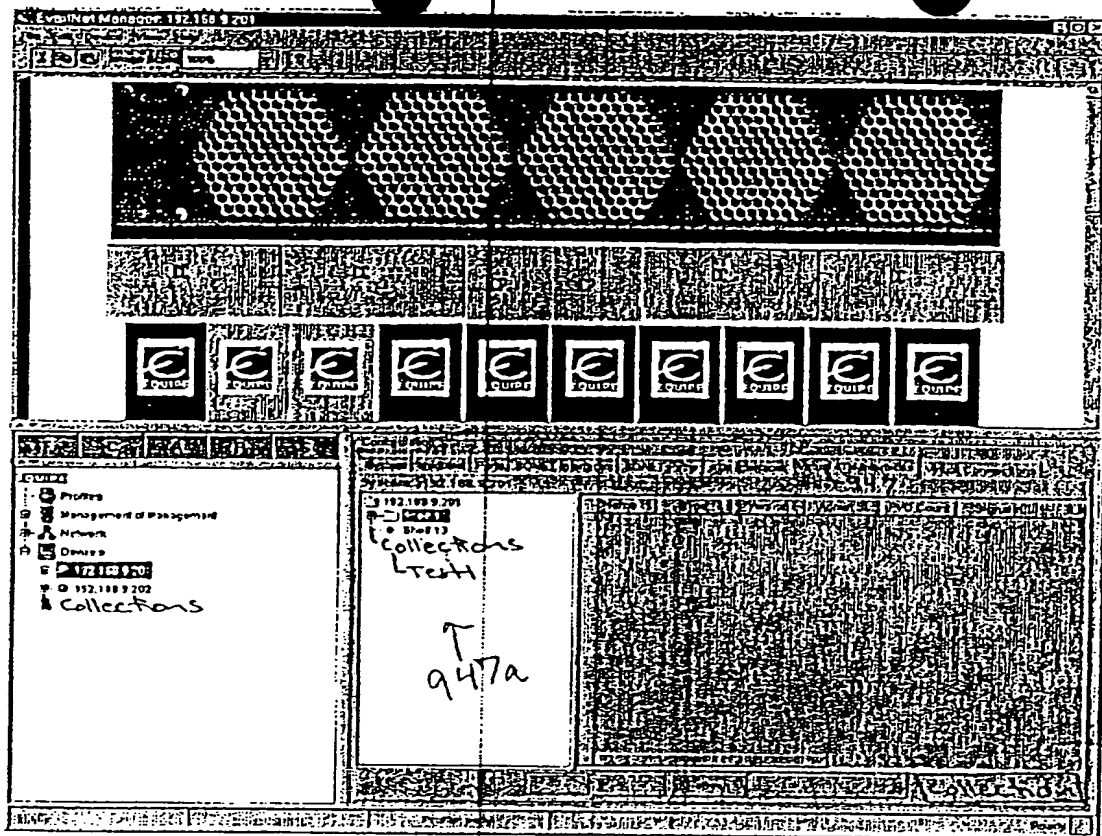


Fig. 10c

895

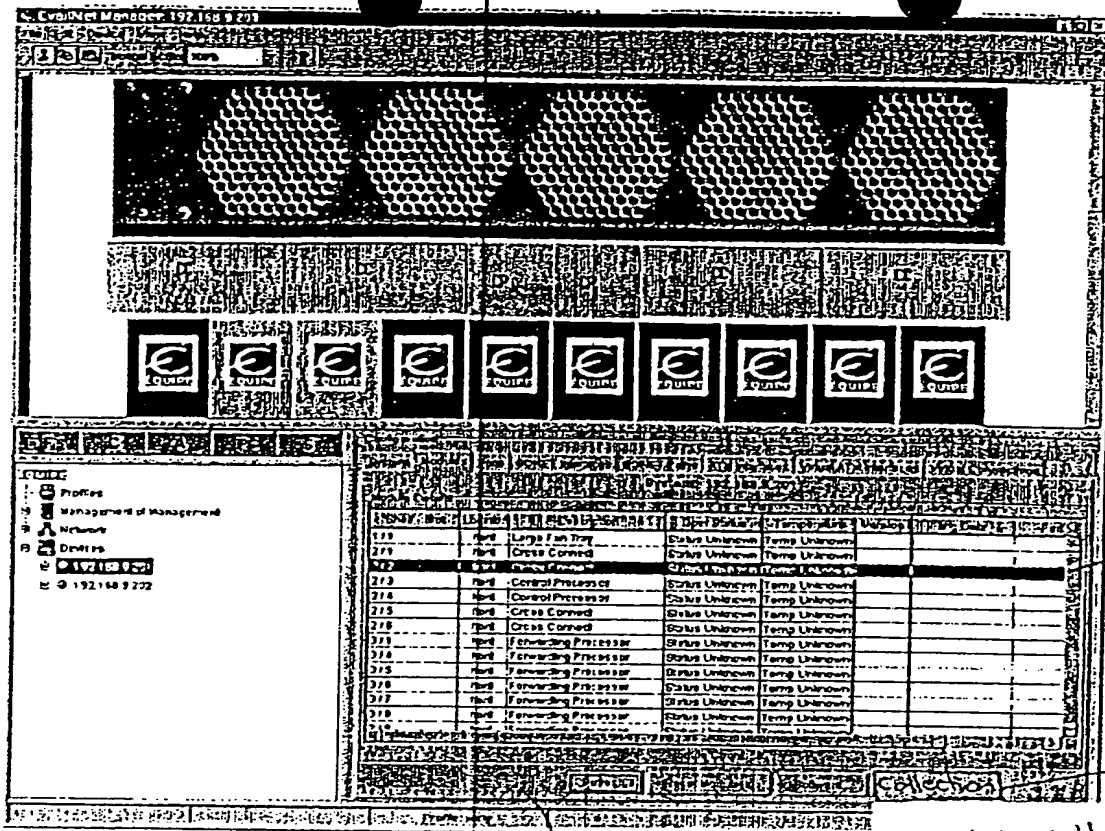


Fig. 10d

897

Add to Collection  
New Collection

979c

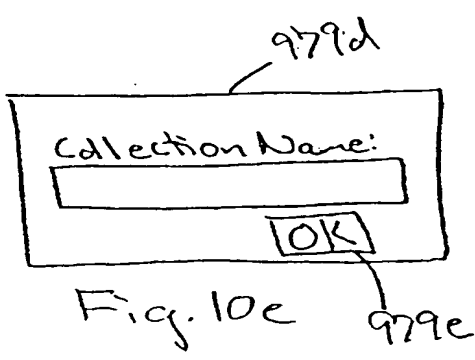


Fig. 10e

979e

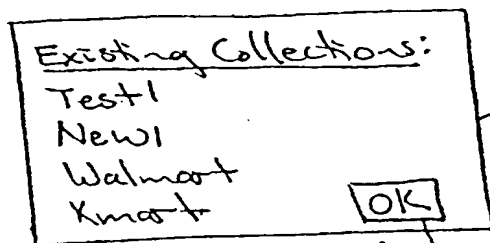


Fig. 10f

979f

979g

895

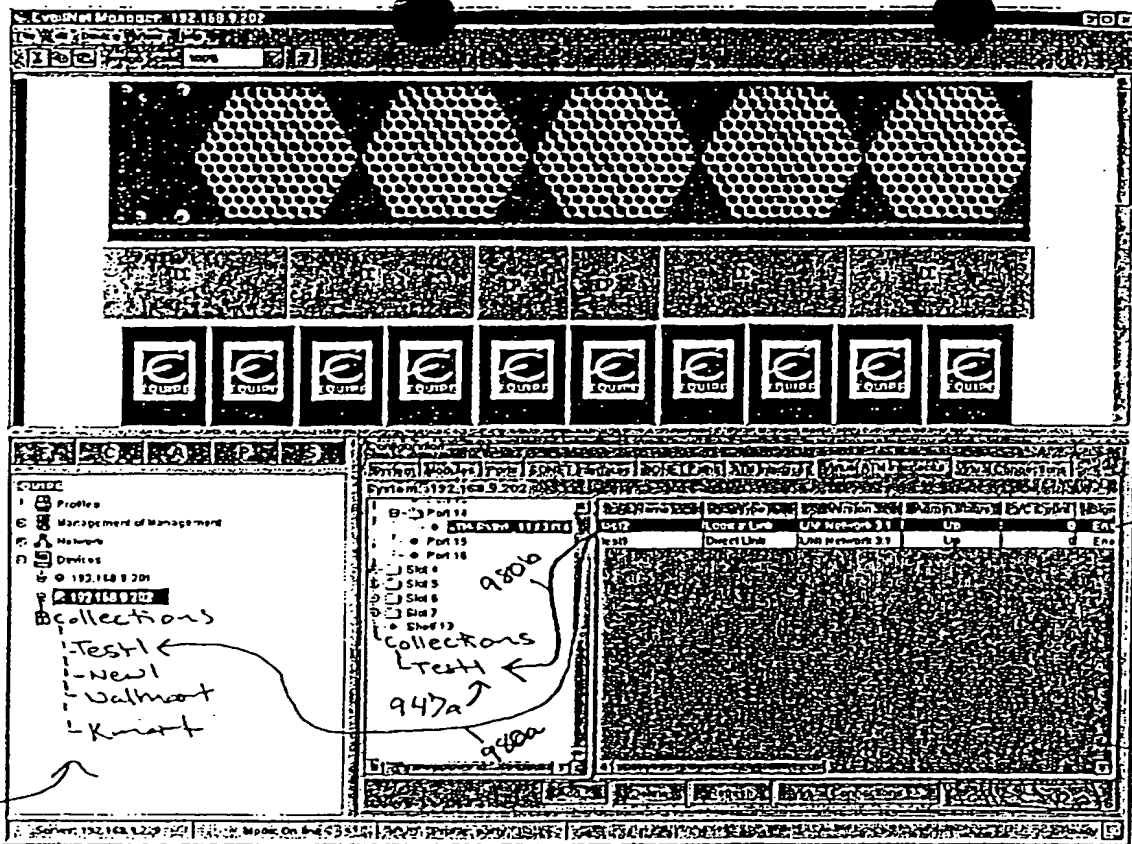


Fig. 10g

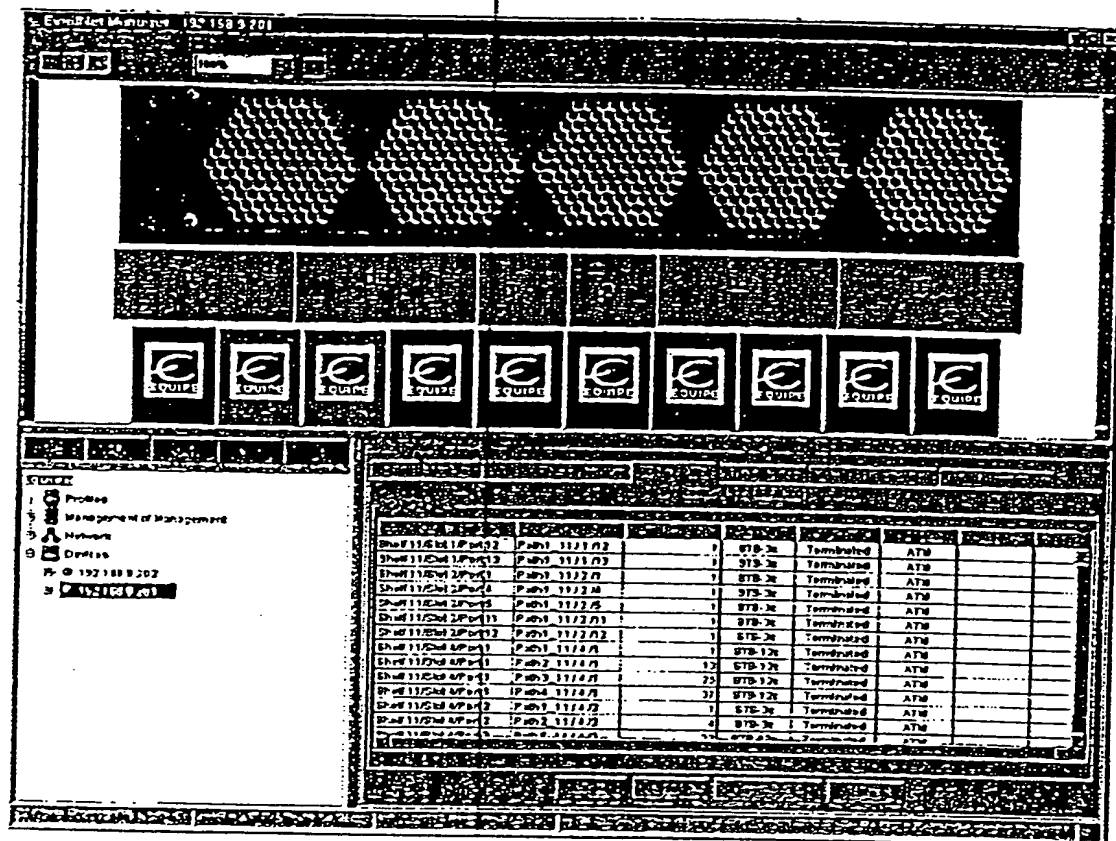
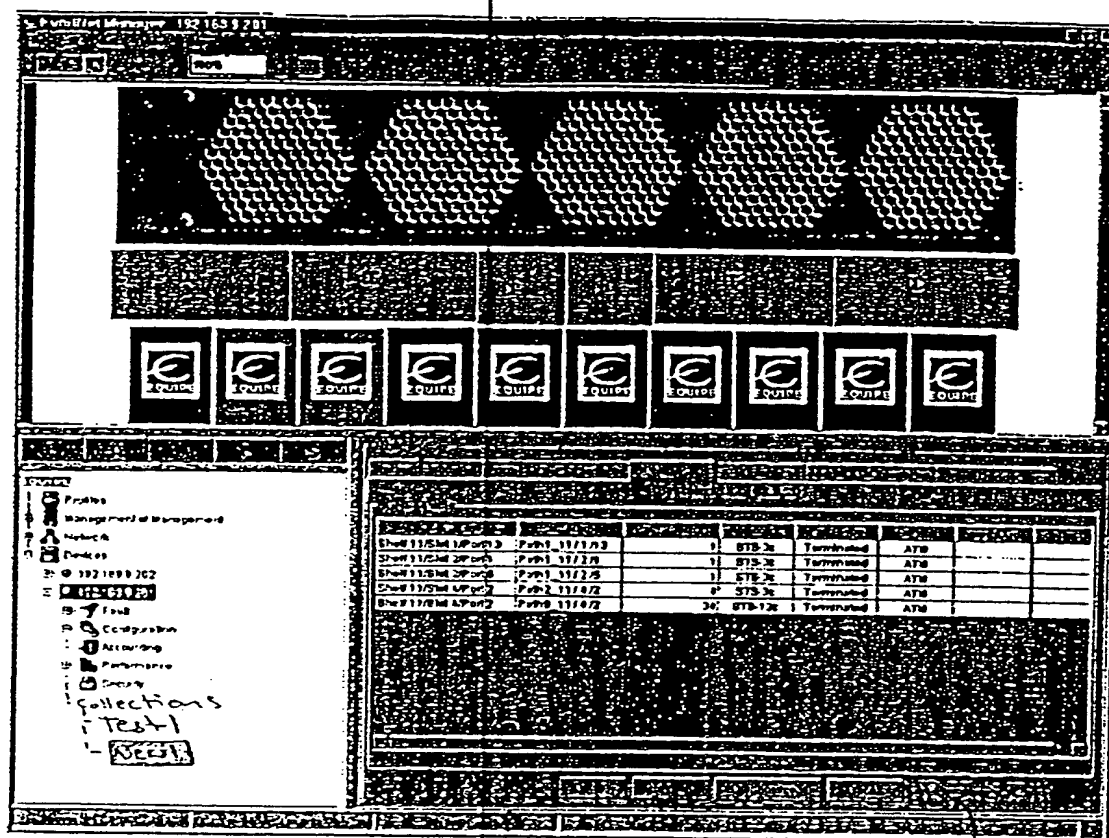


Fig. 10h





982

Fig. 10:

[illegible]

| Name  | Description    | Security    | Time | Server      | IP           |
|-------|----------------|-------------|------|-------------|--------------|
| Joe   | Joe Whitehouse | Admin       | 15   | TeamServer1 | 192.168.1.32 |
| Wayne | Wayne Arns     | Provisioner | 15   | TeamServer2 | 192.168.1.32 |

Fig. 11a

[illegible]

907

General

Username: Kevin

Description: Kevin Snow user account

Group Name: Equipe

Group Level Access:

Password: \*\*\*\*\*

Confirm Password: \*\*\*\*\*

Policies

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

Servers

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.221

Secondary Server Port: 6503

Devices

| Device        | READ   | READ/WRITE | Retry | Timeout | Add | Delete |
|---------------|--------|------------|-------|---------|-----|--------|
| 192.168.9.202 | public | equipe     | 3     | 5       |     |        |
| 192.168.9.205 | public | equipe     | 3     | 5       |     |        |
| 192.168.9.216 | public | equipe     | 3     | 5       |     |        |

OK Cancel

Fig. 11b

Fig. 11c

General Policies Servers Devices

Primary Server: 192.168.1.220

Primary Server Port: 6500

Secondary Server: 192.168.1.205

Secondary Server Port: 6503

OK Cancel

9084

General Policies Servers Devices

| Device        | READ   | READWRITE | Retry | Timeout | Trap Port |
|---------------|--------|-----------|-------|---------|-----------|
| 192.168.9.202 | public | equipe    | 3     | 5       | 162       |
| 192.168.9.205 | public | equipe    | 3     | 5       | 162       |
| 192.168.9.216 | public | equipe    | 3     | 5       | 5012      |

OK Cancel

Fig. 11d

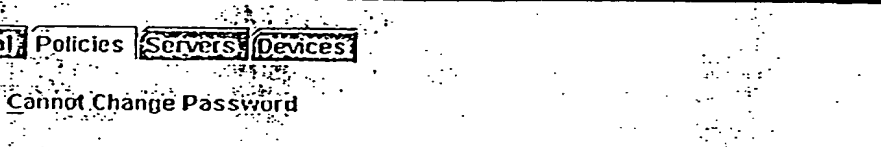
9084

Figlle

The screenshot shows the 'User Manager for Domains' dialog box with the 'General' tab active. The fields are as follows:

| Field Label         | Value                   |
|---------------------|-------------------------|
| Username:           | Kevin                   |
| Description:        | Kevin Snow user account |
| Customer Name:      | Equipe                  |
| Group Level Access: | [Dropdown menu]         |
| Password:           | *****                   |
| Confirm Password:   | *****                   |

Buttons: OK, Cancel



General Policies Servers Devices

☒ User Cannot Change Password

☐ Account Disabled

☒ User Can Add Devices

User Session Timeout: 15 Minutes

OK Cancel

# User Preferences

Show

☒ Tooltips

☒ Horizontal Grid Lines on Tables

☒ Vertical Grid Lines on Tables

☒ Bookmarks

Look and Feel

☐ Use System Look and Feel

☐ Use Java Look and Feel

OK

Cancel

Fig. 11g

09756936 040900

907

**General**

Username: Kevin 908a  
Description: Kevin Snow user account 908e  
Group Name: Equipe 908f  
Group Level Access: 908d  
Password: \*\*\*\*\* 908b  
Confirm Password: \*\*\*\*\* 908c

**Policies**

☒ User Cannot Change Password 108h  
☐ Account Disabled 108i  
☒ User Can Add Devices 108j  
User Session Timeout: 15 908k Minutes

**Servers**

Primary Server: 192.168.1.220 908L  
Primary Server Port: 6500 908n  
Secondary Server: 192.168.1.221 908m  
Secondary Server Port: 6503 908o

**Devices**

| Device        | READ           | READWRITE | Relay | Timeout |            |
|---------------|----------------|-----------|-------|---------|------------|
| 192.168.9.202 | public         | equipe    | 3     | 5       | Add Delete |
| Group List    |                |           |       |         |            |
| 19            | Walmart-East   |           |       |         | ▲          |
| 19            | Walmart-West   |           |       |         |            |
|               | Kmart 1        |           |       |         |            |
|               | seas-northeast |           |       |         | ▼          |

1000a 1000

Fig. 11h

Fig. 11i

EvailNet Manager: SOnET Path Configuration - 11 / 8 / 5

Path: 11 / 8 / 5

Complete: 1 4 STS-3c 57 Terminated ATM

| Path Name  | Path ID          | Path Type | Path Status | Path Type  | Path Status | Path Type | Path Status |
|------------|------------------|-----------|-------------|------------|-------------|-----------|-------------|
| 11 / 8 / 5 | Path1_11 / 8 / 5 | 1         | STS-3c      | Terminated | ATM         |           |             |

1002a

1002d

1002b

1002c

EvailNet Manager: SOnET Path Configuration - 11 / 8 / 5

Path: 11 / 8 / 5

Complete: 1 4 STS-3c 57 Terminated ATM

| Path Name  | Path ID          | Path Type | Path Status | Path Type | Path Status | Path Type | Path Status |
|------------|------------------|-----------|-------------|-----------|-------------|-----------|-------------|
| 11 / 8 / 5 | Path1_11 / 8 / 5 | 1         | STS-3c      | Termin.   | ATM         |           |             |
| 11 / 8 / 5 | Path2_11 / 8 / 5 | 4         | STS-3c      | Termin.   | ATM         |           |             |
| 11 / 8 / 5 | Path3_11 / 8 / 5 | 7         | STS-3c      | Termin.   | ATM         |           |             |
| 11 / 8 / 5 | Path4_11 / 8 / 5 | 10        | STS-3c      | Termin.   | ATM         |           |             |

1002a

1002d

1002b

1002c

1002

Fig. 11j



Fig. 11k

1002

EvailNet Manager: SONET Path Configuration - 11/8/5

Path Name: STS-3c

Virtual SONET Paths

| Path Name    | Path ID | Path Type | Path Length | Path Status | Path Description |
|--------------|---------|-----------|-------------|-------------|------------------|
| Path1_11/8/5 | 1       | STS-3c    | Termi...    | ATM         |                  |
| Path2_11/8/5 | 4       | STS-3c    | Termi...    | ATM         |                  |
| Path3_11/8/5 | 7       | Termi...  | ATM         |             |                  |

1002a

1002d

1002b

1002c

Add V-ATM Interface - 192.168.9.201

Shell/Stripper: Path Name: Path2\_11/8/5

Virtual V-ATM Interface Parameters

Name/Alias: [ ]

Connection Type: Direct Link ☒

Version: UNI Network 3.1 ☒

Admin Status: Up ☒

OK Cancel

1004

1004b

1004c

Fig. 11n

1004a

Fig. 11L

Managed Resource Group Table

1008

1008a

1008b

1008c

1008d

| LID  | Managed Device PID | Group Name   |
|------|--------------------|--------------|
| 1145 | 1                  | Walmart-East |
| ⋮    | ⋮                  | ⋮            |

Fig. 11M

Managed Resource Table

1007

1007a

1007b

1007c

| LID  | Resource LID | Manage Resource Group LID |
|------|--------------|---------------------------|
| 4443 | 901          | 1145                      |
| ⋮    | ⋮            | ⋮                         |

1006

**EvailNet Manager. 192.168.9.201 - Virtual Connection Wizard**

Source: 192.168.9.201      Destination: 192.168.9.201

**Endpoint 1**

- 192.168.9.201
  - Shelf 11
    - Slot 1
    - Slot 2
    - Slot 3
    - Slot 4
      - Port 1
      - Port 2
        - ATM-Path2\_11/4/2**

**Endpoint 2**

- 192.168.9.201
  - Shelf 11
    - Shelf 13

**Connection Parameters**

Connection Name: \_\_\_\_\_

Admin Status: Up ☐

Group Name: \_\_\_\_\_ **Group Edit**

**Endpoint Parameters**

IP: \_\_\_\_\_ ☐ Use any IP value

Port: \_\_\_\_\_ ☐ Use any port value

Transmit Traffic Description: \_\_\_\_\_ ☒ Add traffic description

Receive Traffic Description: \_\_\_\_\_ ☒ Add traffic description

☒ Use the same traffic description for both transmit and receive

**Endpoint 2 Parameters**

IP: \_\_\_\_\_ ☐ Use any IP value

Port: \_\_\_\_\_ ☐ Use any port value

Transmit Traffic Description: \_\_\_\_\_ ☒ Add traffic description

Receive Traffic Description: \_\_\_\_\_ ☒ Add traffic description

☒ Use the same traffic description for both transmit and receive

**Back      Cancel      OK**

1006a

1006b

00766936 0409001

1006c

Fig. 110

Fig. 11p

User Table

1010

| LID  | Username | Password | Group Level Access |
|------|----------|----------|--------------------|
| 2012 | Dave     | Marble   | Provisioner        |
| ⋮    | ⋮        | ⋮        |                    |

1010a points to the first row of the table.

1010b points to the Username column.

1010c points to the Password column.

1010d points to the Group Level Access column.

1010e points to the Provisioner value in the first row.

Fig. 11q

User Managed Device Table

1012

| LID  | User LID | Host LID | Retry | Timeout |
|------|----------|----------|-------|---------|
| 7892 | 2012     | 9046     |       |         |
| ⋮    | ⋮        | ⋮        | ⋮     | ⋮       |

1012a points to the first row of the table.

1012b points to the User LID column.

1012c points to the Host LID column.

1012d points to the Retry column.

1012e points to the Timeout column.

Fig. 11r

Administration Managed Device Table

1014

| LID  | Host Address  | Port Address | Retry | Timeout | Admin. Password | Prov. Password | Viewer Password |
|------|---------------|--------------|-------|---------|-----------------|----------------|-----------------|
| 9046 | 192.168.9.202 | 1521         |       |         | team 1          | team 2         | team 3          |
| ⋮    | ⋮             | ⋮            | ⋮     | ⋮       | ⋮               | ⋮              | ⋮               |

1014a points to the first row of the table.

1014b points to the Host Address column.

1014c points to the LID column.

1014d points to the Prov. Password column.

1014e points to the Port Address column.

Fig. 11s

1013

Add Delete DeviceDlg

1013a — Device Host: 192.168.1.202

1013b — Device Port: 1521

1013c — SNMP Retry:

1013d — SNMP Timeout:

1013e — Admin. Password:

1013f — Prov. Password:

1013g — Viewer Password:

1013h — Add

1013i — OK

Cancel

Delete

Fig. 11t

User Resource Group Map Table

|       |       |          |                         |       |
|-------|-------|----------|-------------------------|-------|
| 1016a | 1016b |          |                         | 1016c |
|       | LID   | User LID | User Resource Group LID |       |
|       | 8086  | 2012     | 1024                    |       |
|       | ⋮     | ⋮        | ⋮                       |       |

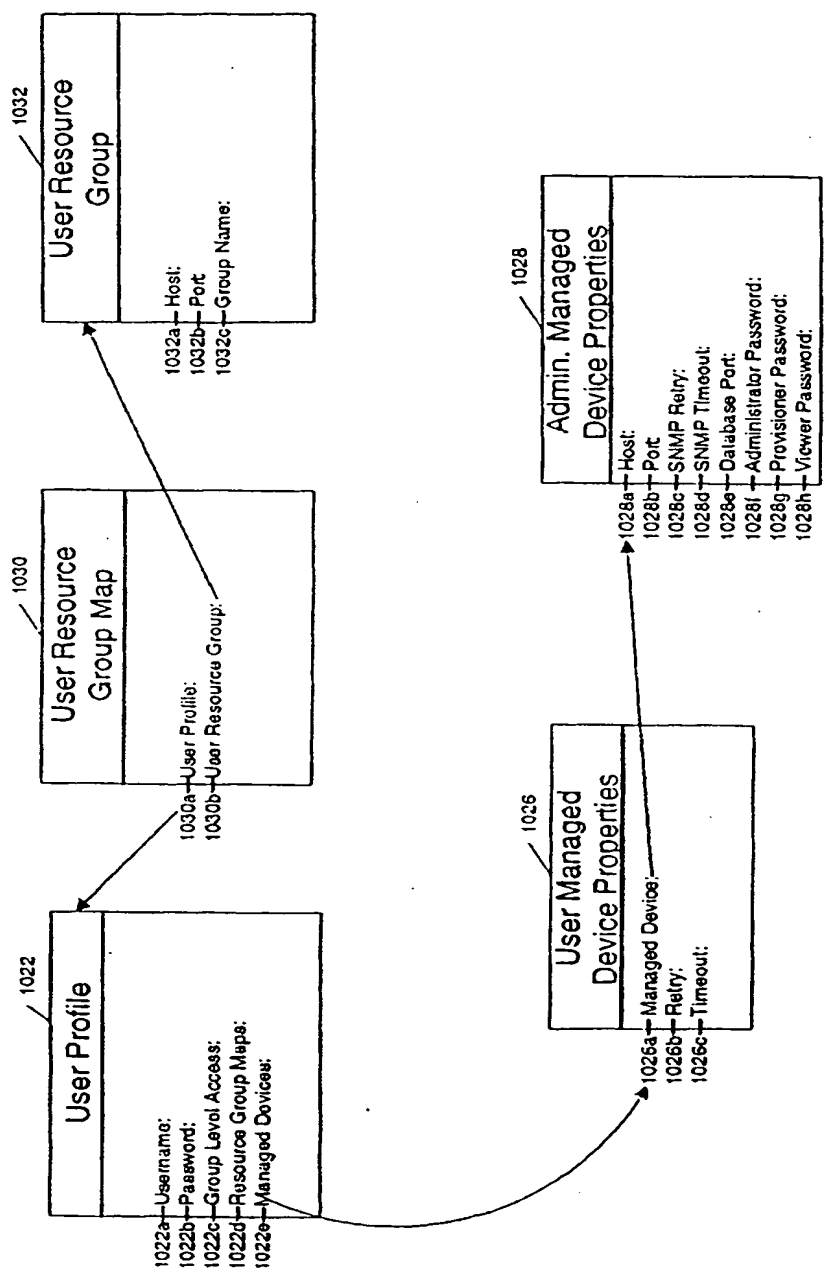
1016

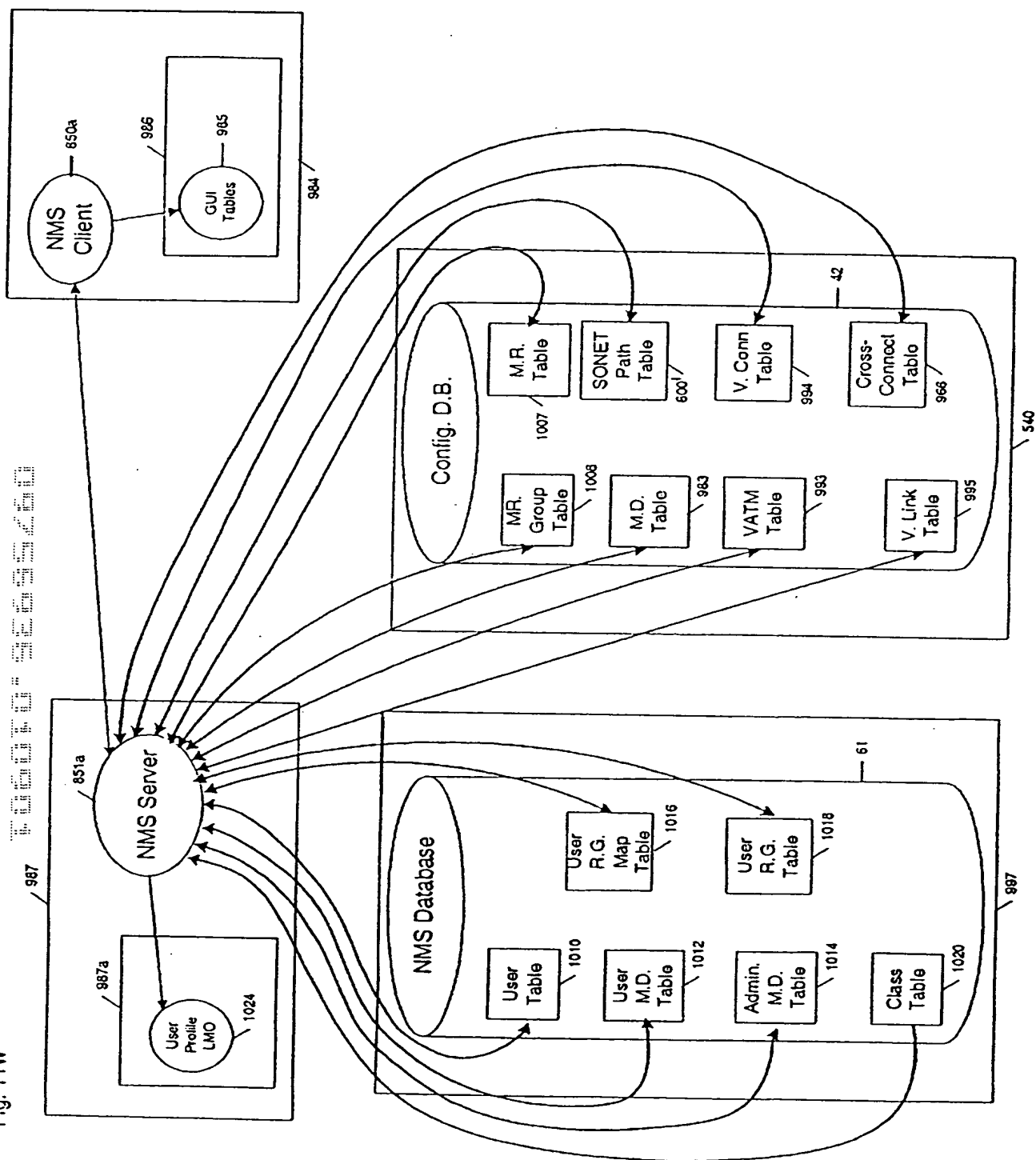
Fig. 11u

User Resource Group Table

|       |       |          |              |      |
|-------|-------|----------|--------------|------|
| 1018d | 1018a | 1018b    | 1018c        | 1018 |
|       | LID   | Host LID | Group Name   |      |
|       | 1024  | 9046     | Walmart-East |      |
|       | ⋮     | ⋮        | ⋮            |      |

Fig. 11v

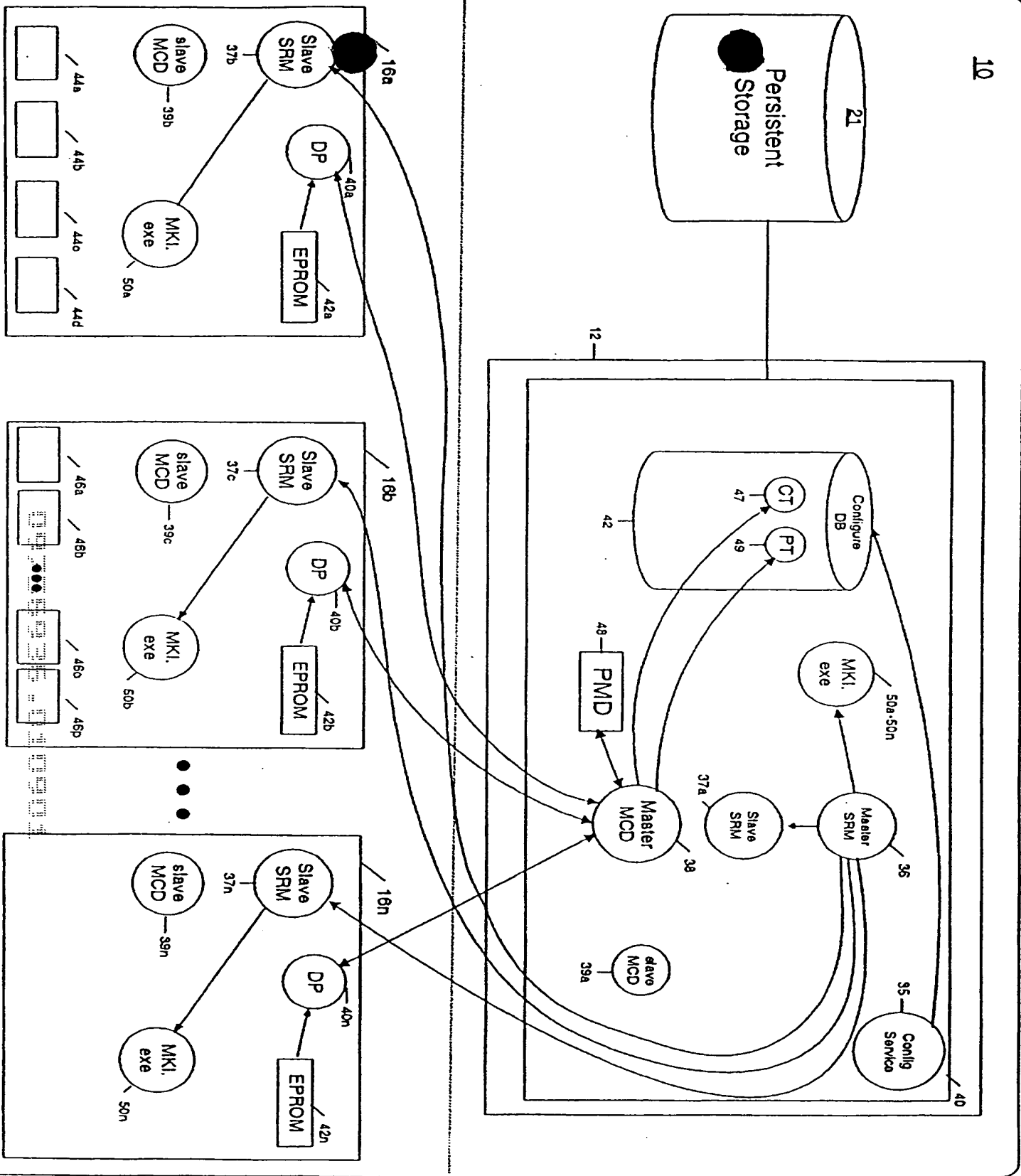


[illegible]



[illegible]

FIG. 12a



## CARD TABLE

| PID | CWD TYPE | VERSION NO. | SLOT NO. | ... |
|-----|----------|-------------|----------|-----|
|-----|----------|-------------|----------|-----|

47

|        |     |        |   |    |   |
|--------|-----|--------|---|----|---|
| 16 a — | 500 | 0XF002 | 3 | 1  |   |
| 16 b — | 501 | 0XF002 | 4 | 2  |   |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |
| 16 e — | 505 | 0X6002 | 1 | 5  |   |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |
| 16 n — | 513 | 0XF002 | 1 | 12 |   |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |
|        | ∴   | ∴      | ∴ | ∴  | ∴ |

FIG. 12b

[illegible]

# PORT TABLE

| PID | PORT TYPE | VERSION NO. | SLOT NO. | ... |
|-----|-----------|-------------|----------|-----|
|-----|-----------|-------------|----------|-----|

49

|       |      |       |   |   |  |
|-------|------|-------|---|---|--|
| 44a — | 1500 | 00620 | 1 | 1 |  |
| 44b — | 1501 | 00620 | 1 | 1 |  |
| 44c — | 1502 | 00620 | 1 | 1 |  |
| 44d — | 1503 | 00620 | 1 | 1 |  |
| 44a — | 1504 | 00820 |   |   |  |
| 46a — | 1600 | 00620 | 1 | 8 |  |
| 46a — | 1600 | 00620 | 1 | 8 |  |
| 46a — | 1600 | 00620 | 1 | 8 |  |

FIG. 12c

00766036 040904

FIG. 13a

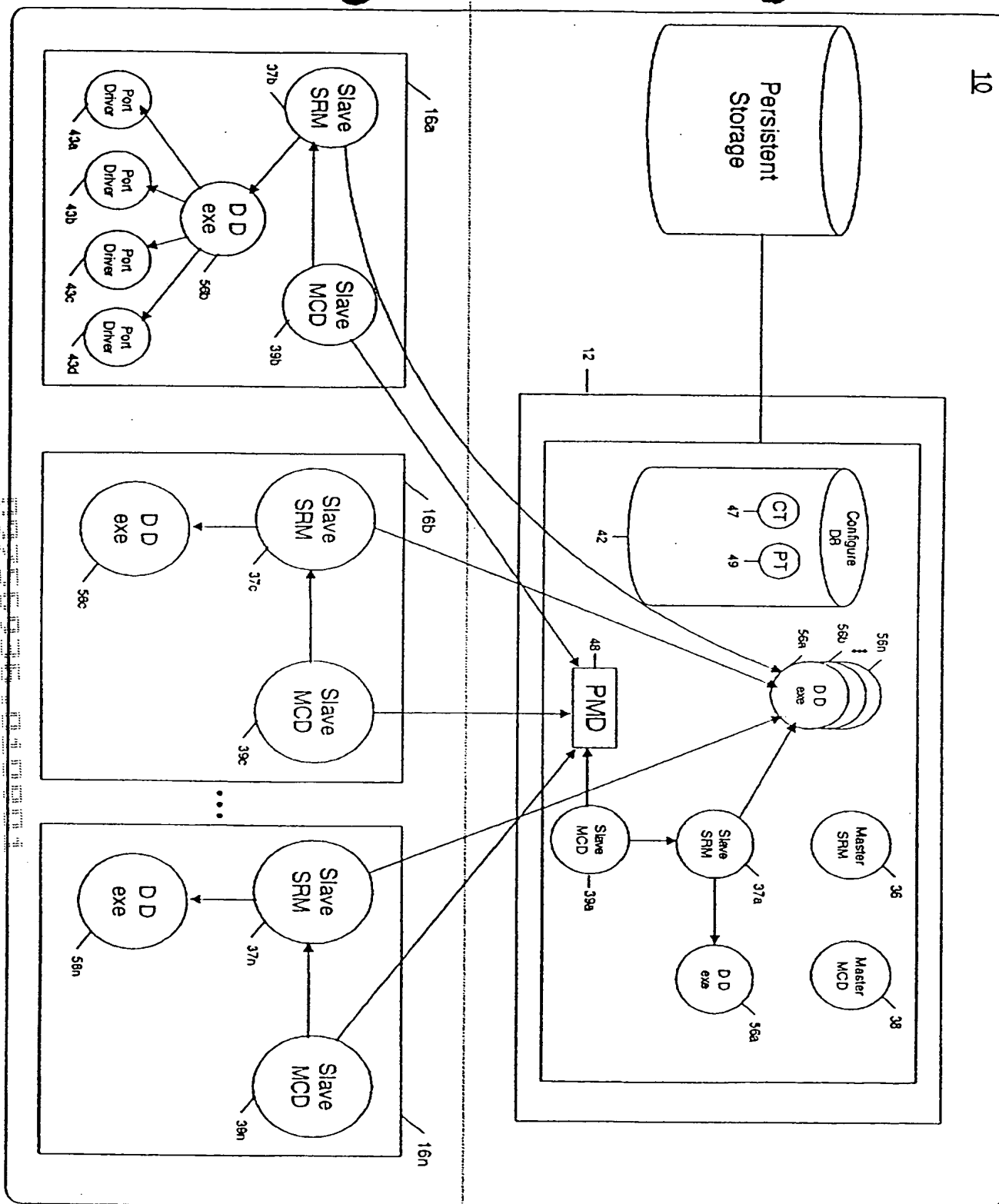


FIG. 13b

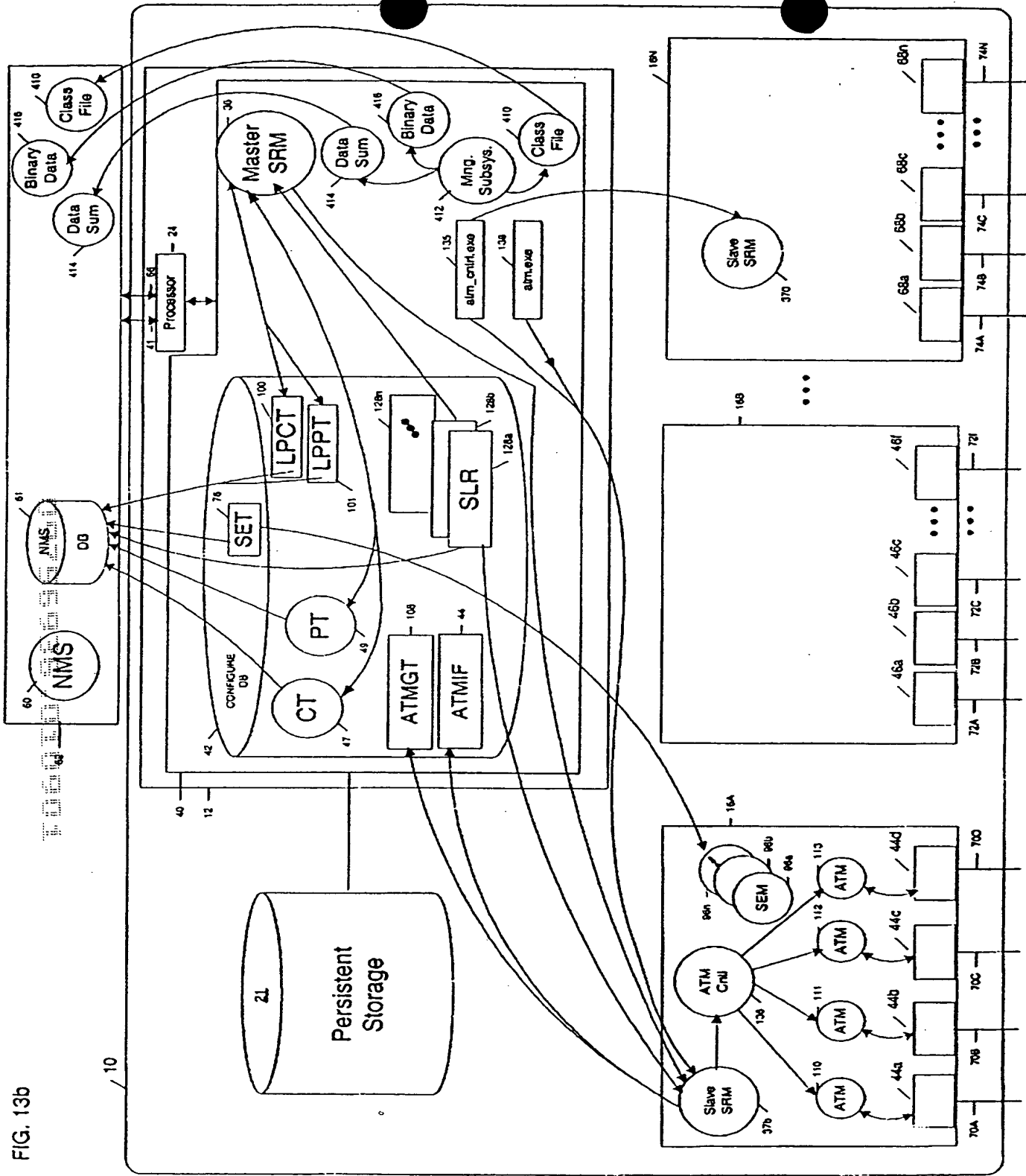


Fig. 13c

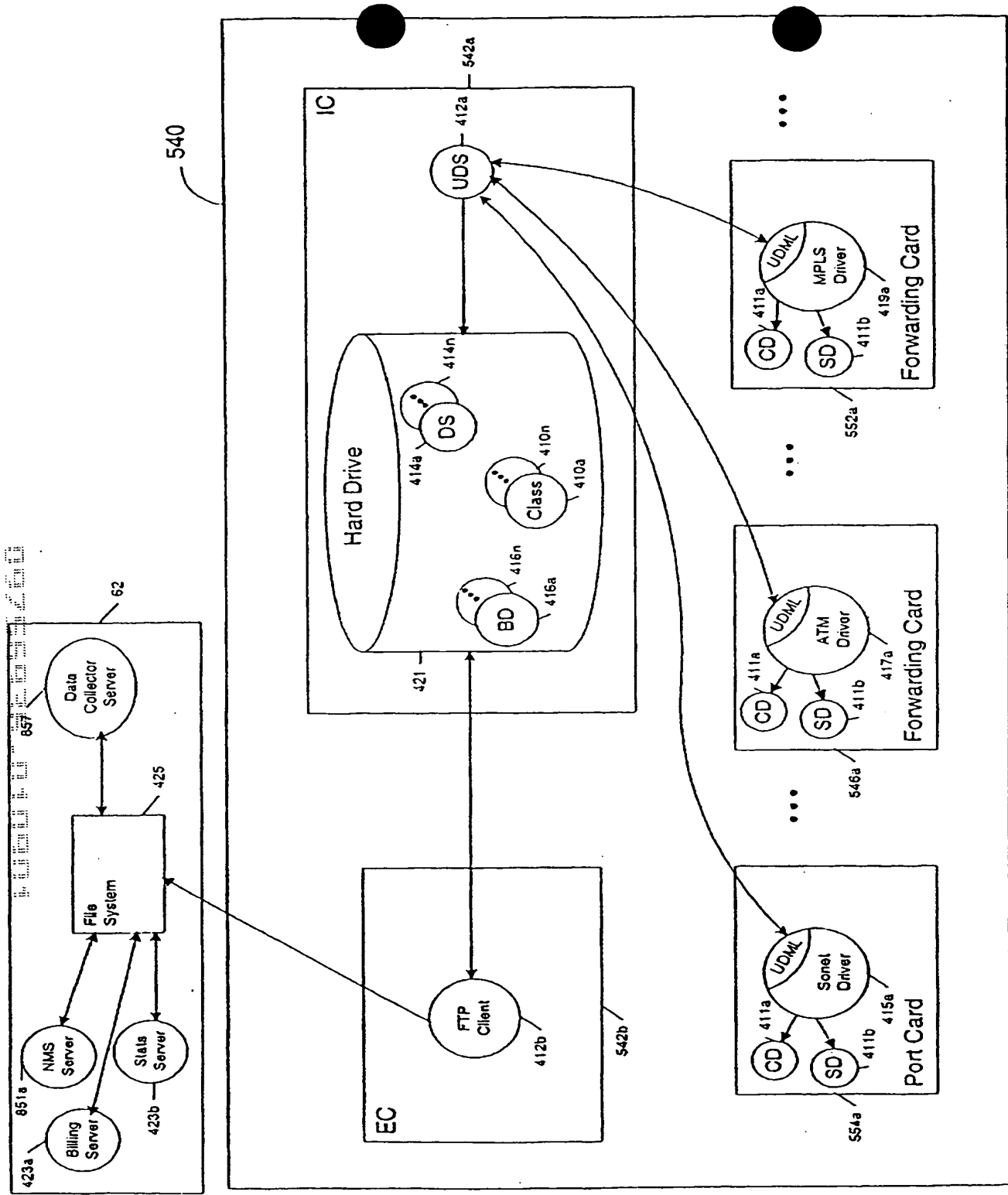


Fig. 13d

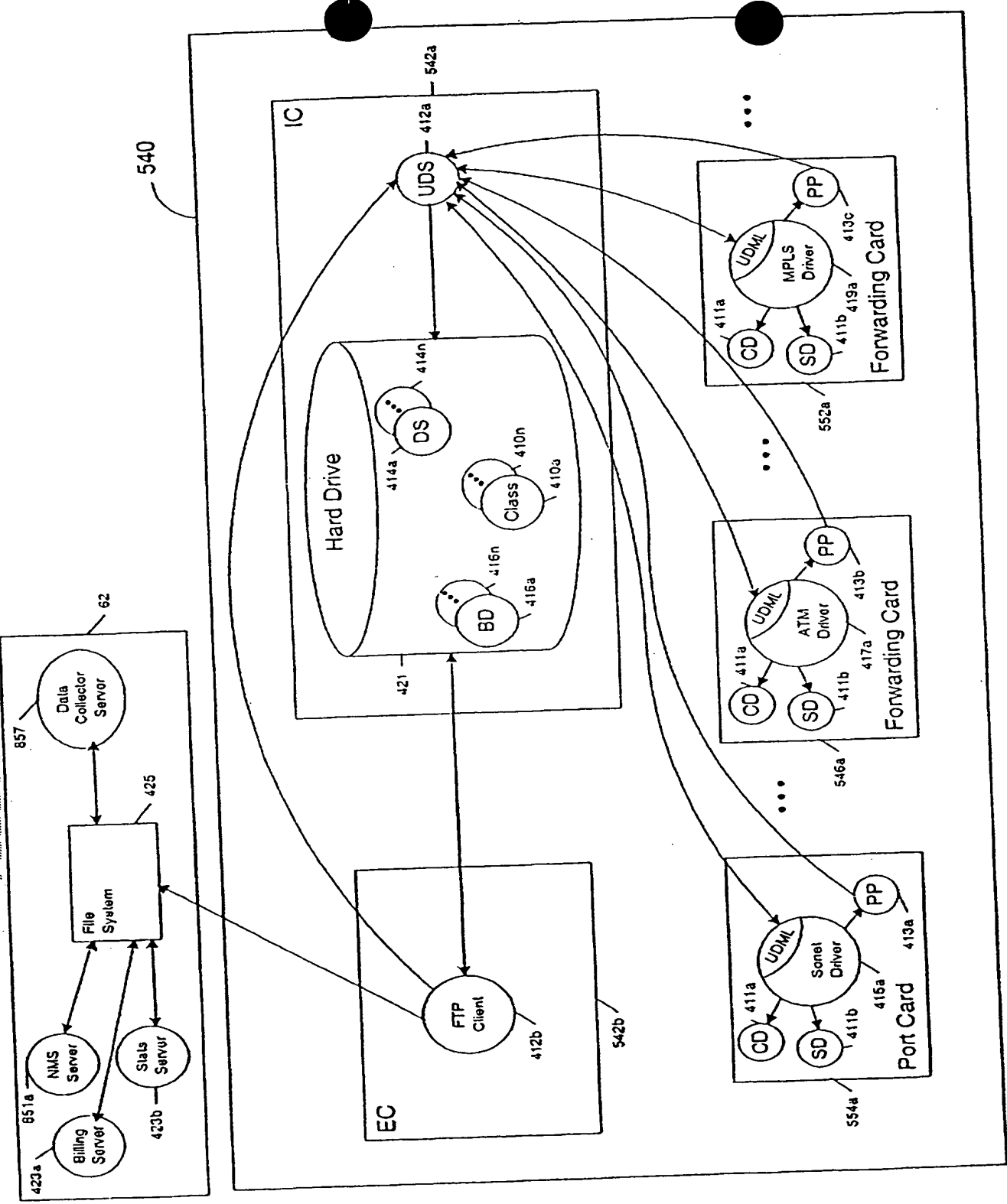




FIG. 14a

Service Endpoint Table 76

|     | Service<br>Endpoint # | Port PID |
|-----|-----------------------|----------|
| 78  | 1                     | 1500     |
| 80  | 2                     | 1501     |
| 82  | 3                     | 1501     |
| 84  | 4                     | 1501     |
| 86  | 5                     | 1502     |
| 88  | 6                     | 1502     |
| 90  | 7                     | 1503     |
| 92  | 8                     | 1503     |
| 94  | 9                     | 1503     |
| 168 | 10                    | 1502     |
|     | ⋮                     | ⋮        |

FIG. 14b

Logical to Physical Card Table 100

|     | 98<br>LID | 102<br>Primary<br>PID | 104<br>Back-up<br>PID |
|-----|-----------|-----------------------|-----------------------|
| 106 | 30        | 500                   | 513                   |
| 109 | 31        | 501                   | 513                   |
|     | ⋮         | ⋮                     | ⋮                     |

FIG. 14c

Logical to Physical Port Table 101

|     | 98<br>LID | 102<br>Primary<br>PID | 104<br>Back-up<br>PID |
|-----|-----------|-----------------------|-----------------------|
| 107 | 40        | 1500                  | 1600                  |
|     | ⋮         | ⋮                     | ⋮                     |

FIG. 14d

ATM Group Table 108

| Group # | Card LID | ... |
|---------|----------|-----|
| 1       | 30       |     |
| 2       | 30       |     |
| 3       | 30       |     |
| 4       | 30       |     |

FIG. 14e

ATM Interface Table 114

| ATM IF | ATM Group | SE | ... |
|--------|-----------|----|-----|
| 1      | 1         | 1  |     |
| 2      | 1         | 1  |     |
| 3      | 1         | 1  |     |
| 4      | 2         | 2  |     |
| 5      | 2         | 3  |     |
| 6      | 2         | 4  |     |
| ⋮      | ⋮         | ⋮  | ⋮   |
| 12     | 3         | 10 |     |
| ⋮      | ⋮         | ⋮  | ⋮   |

FIG. 14f

Software Load Record 128a

|     |              |     |     |
|-----|--------------|-----|-----|
| 130 | Control Shim | LID | 132 |
| 134 | atm-cntl.exe | 30  |     |

FIG. 15

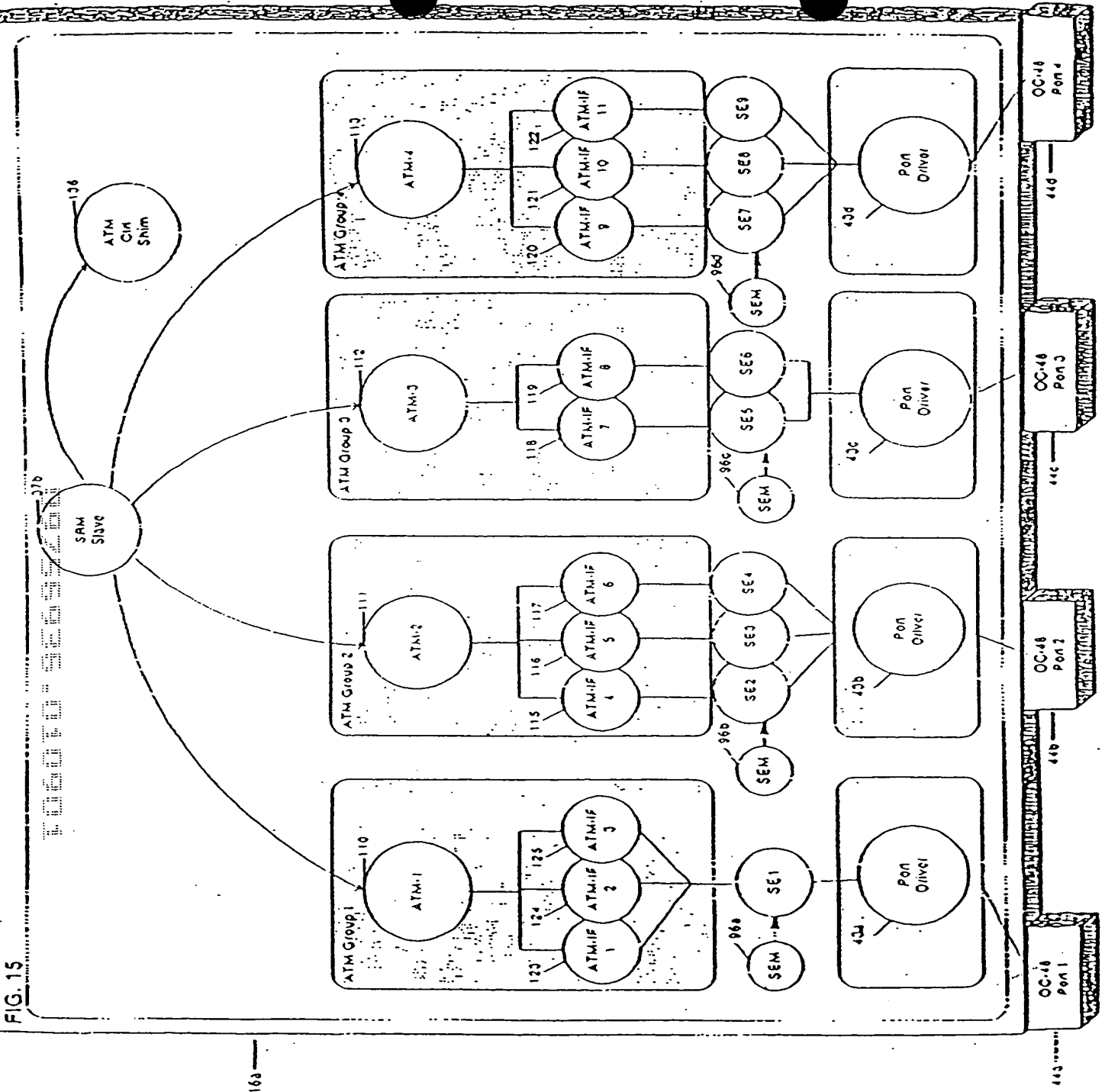


FIG. 16a

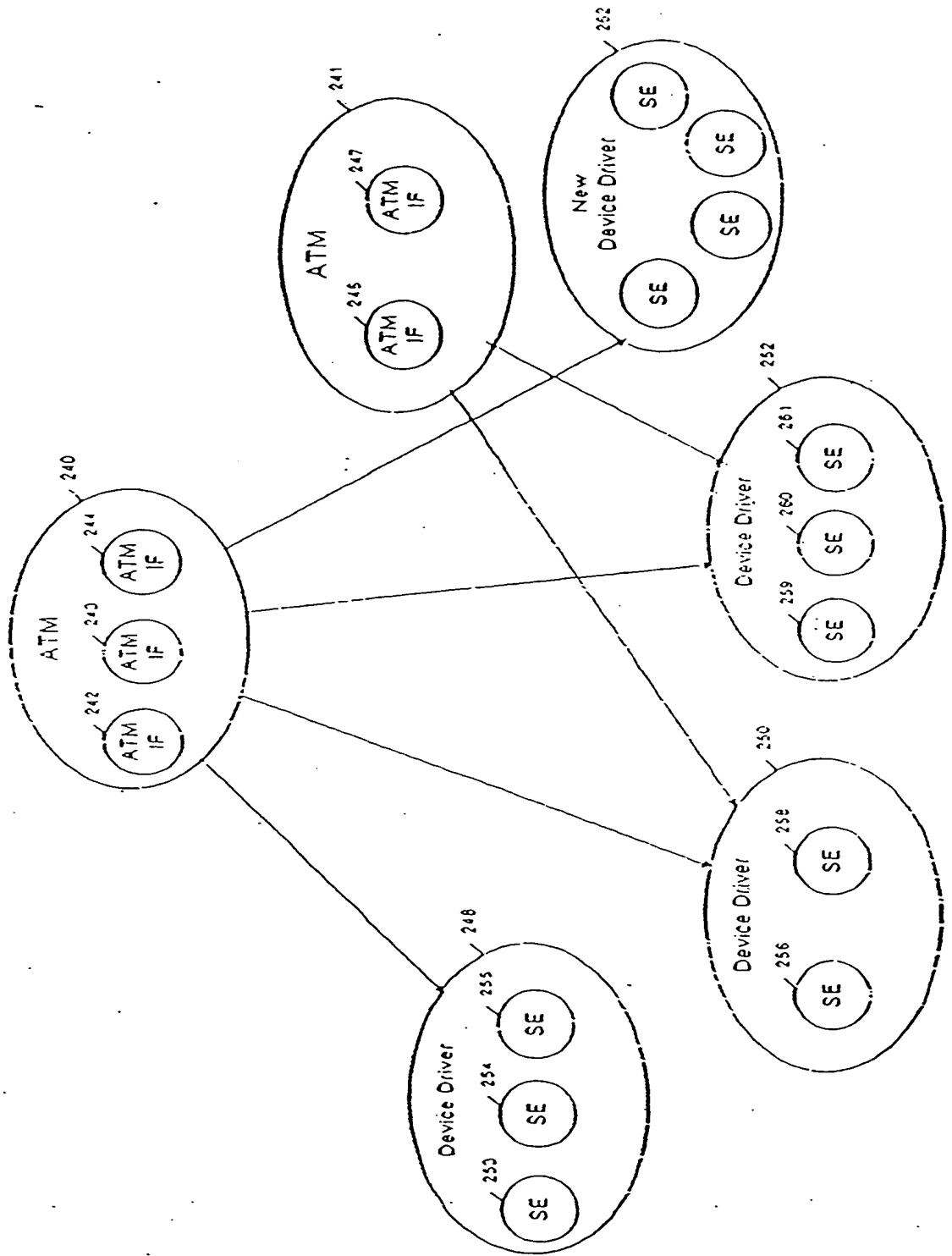


FIG. 16b

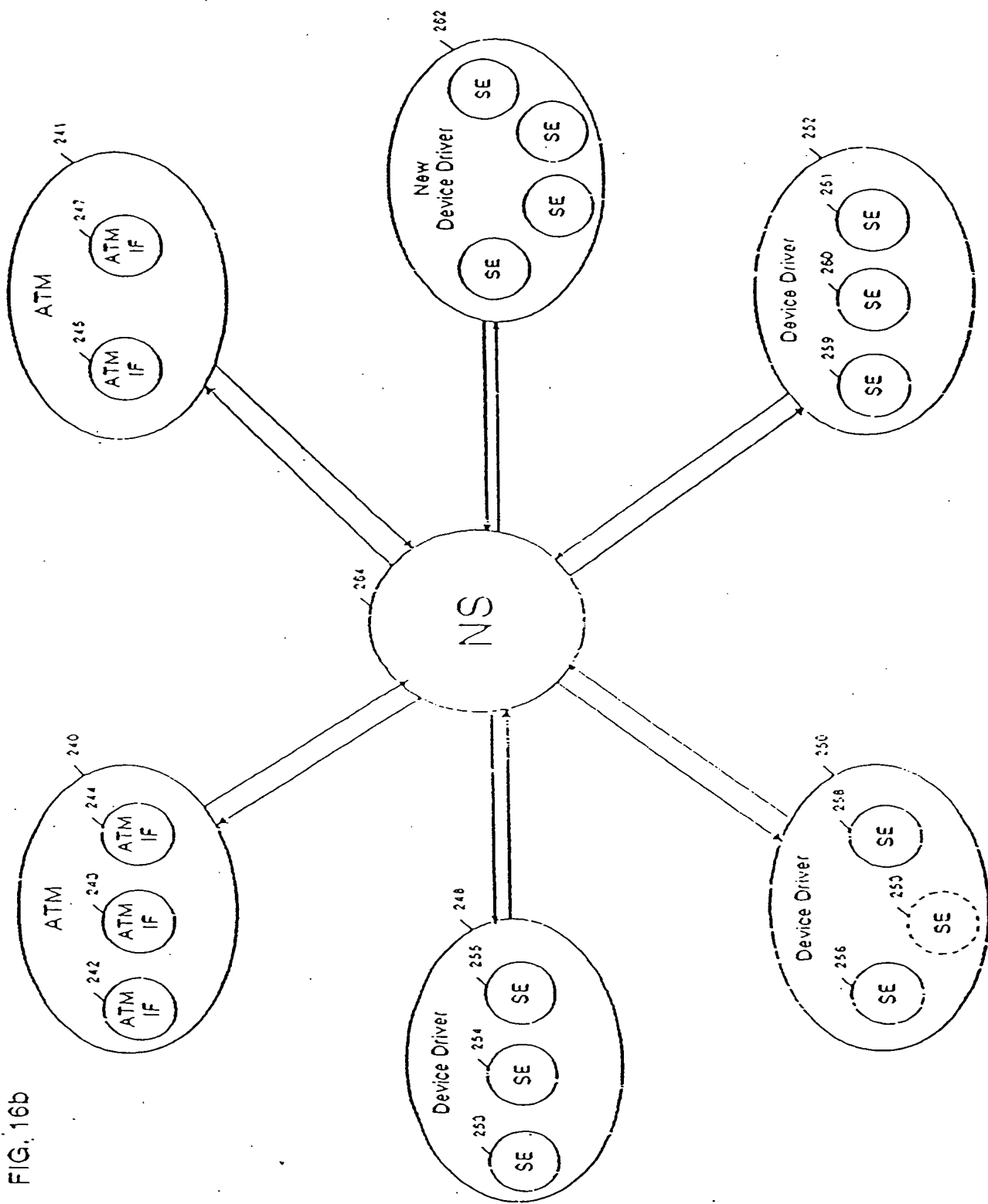
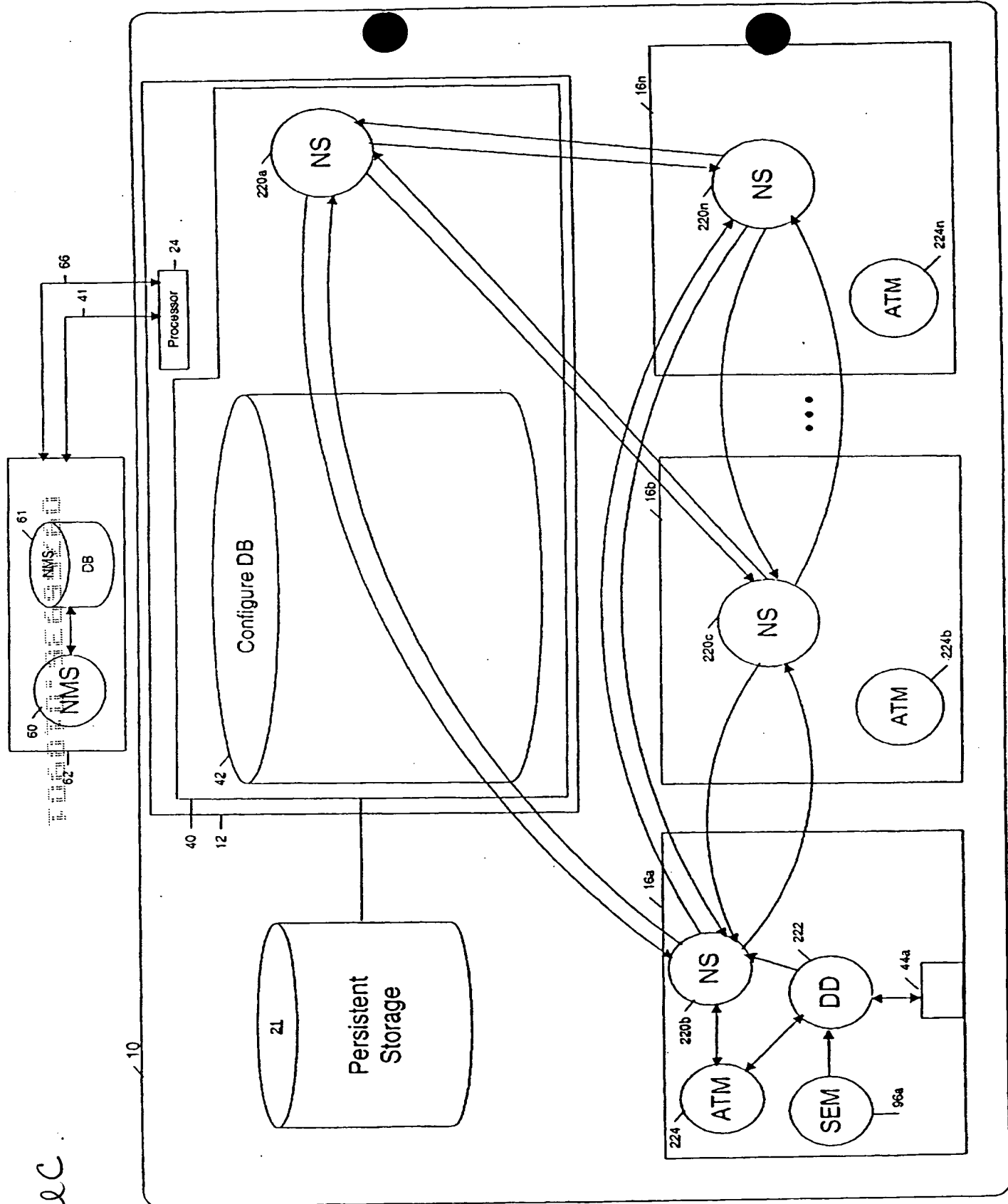


fig. 11c.





rmsg type

...

274

Value

...

[illegible]

Fig. 17

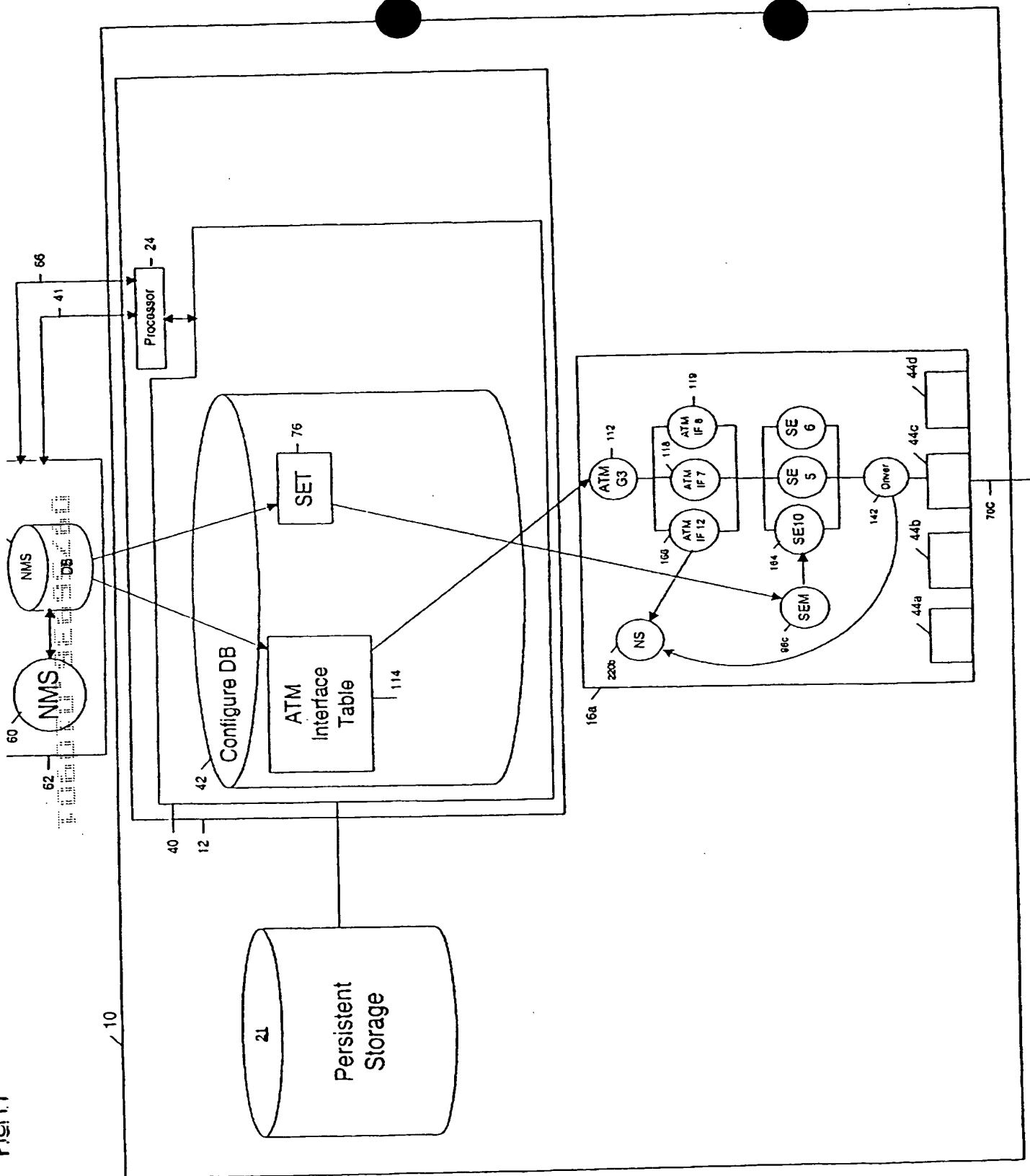




Fig 18

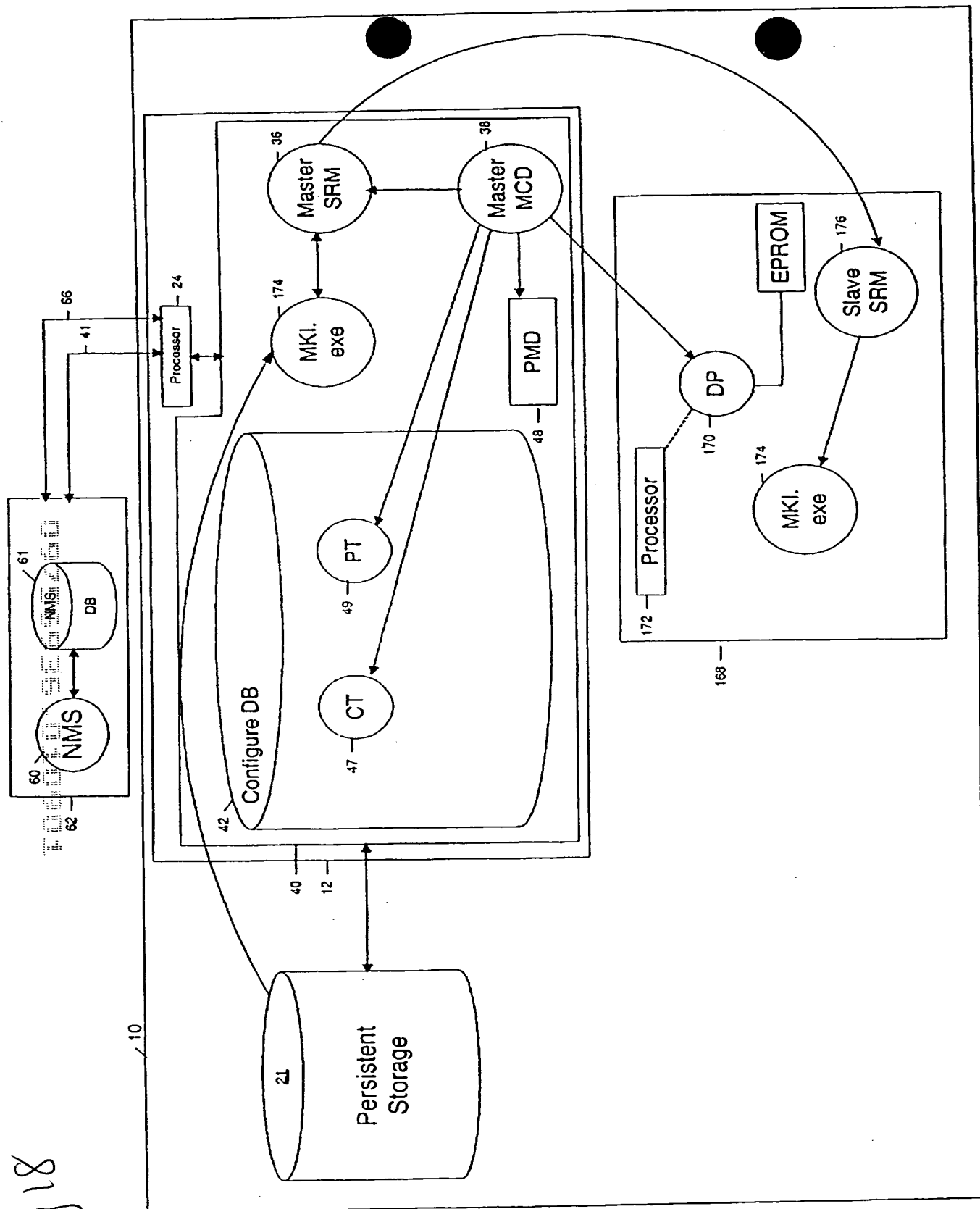
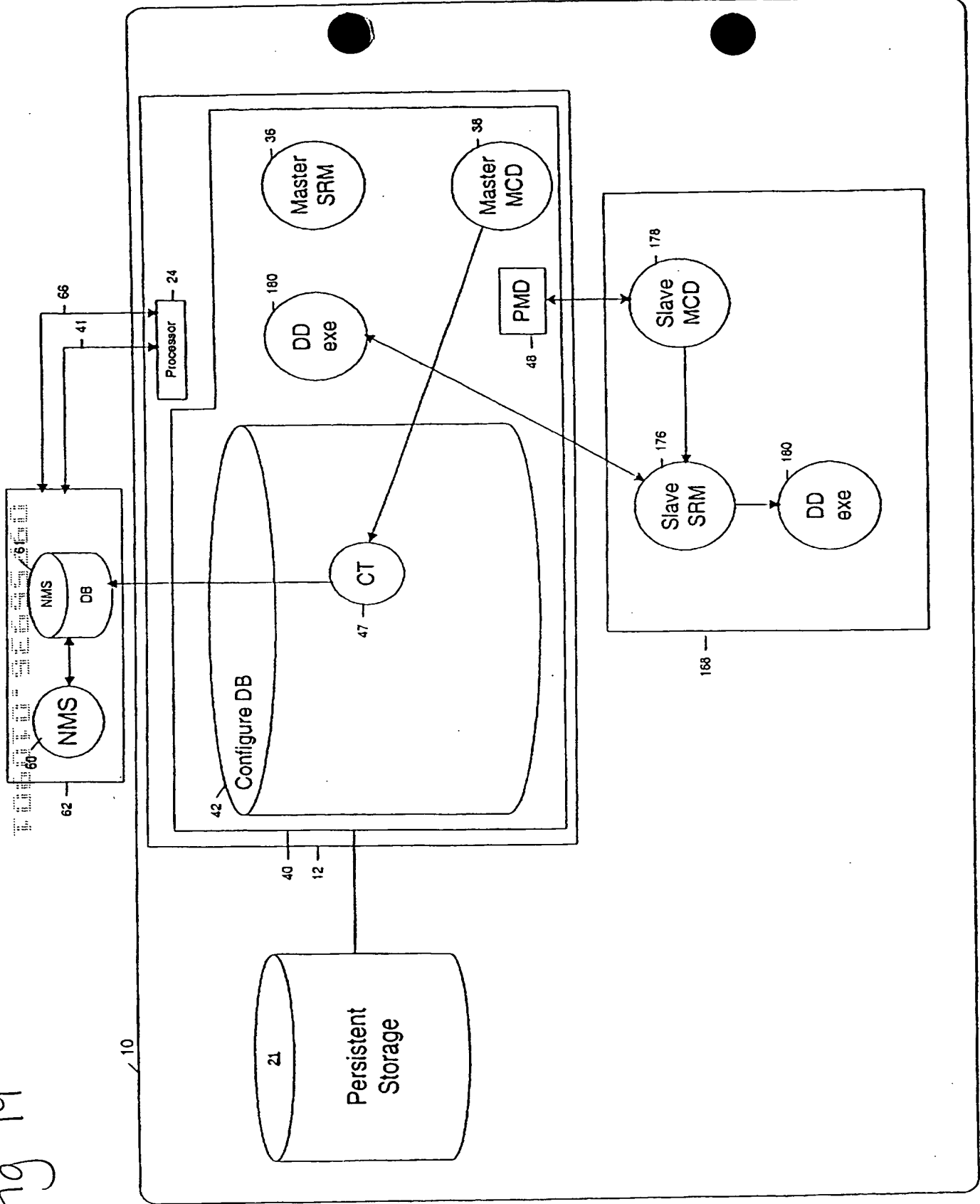
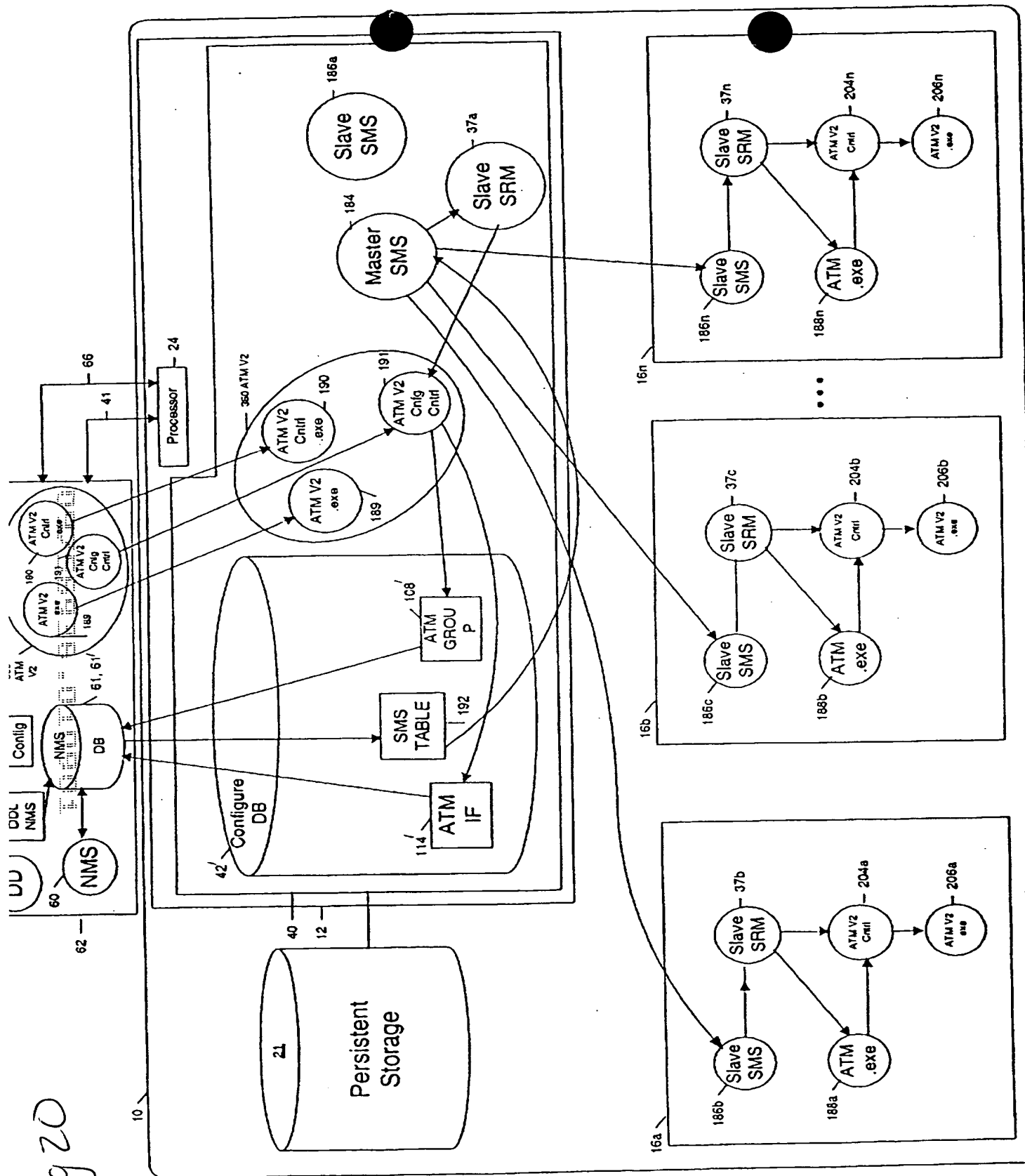
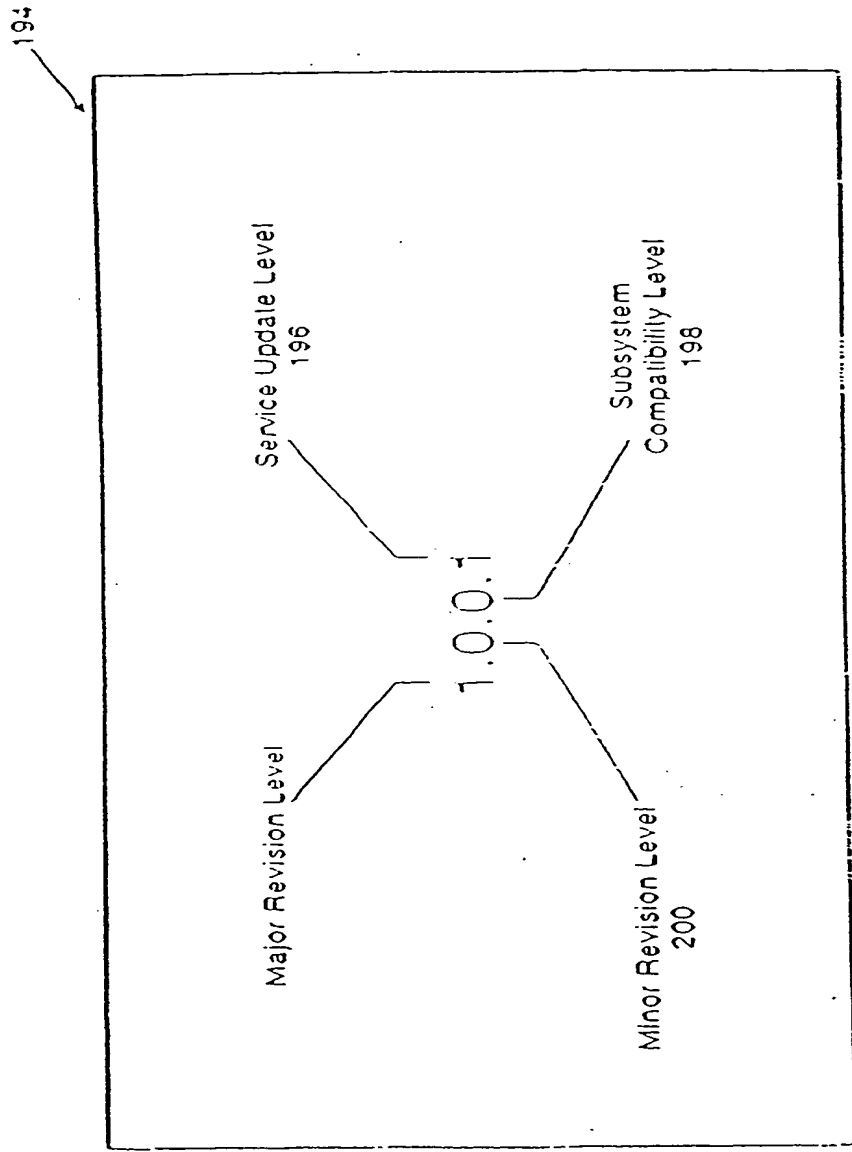


Fig 19







|  | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

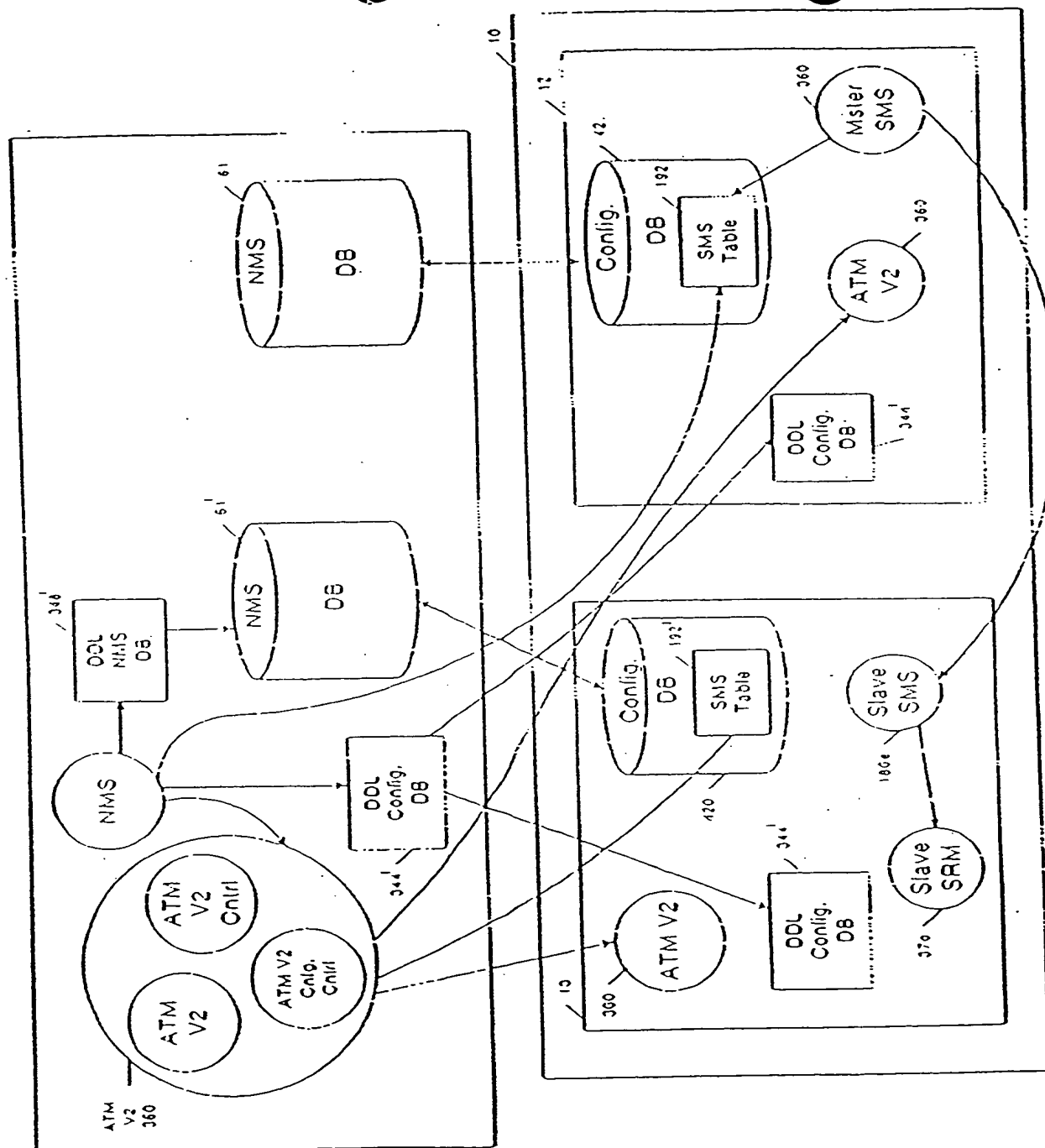


fig. 23

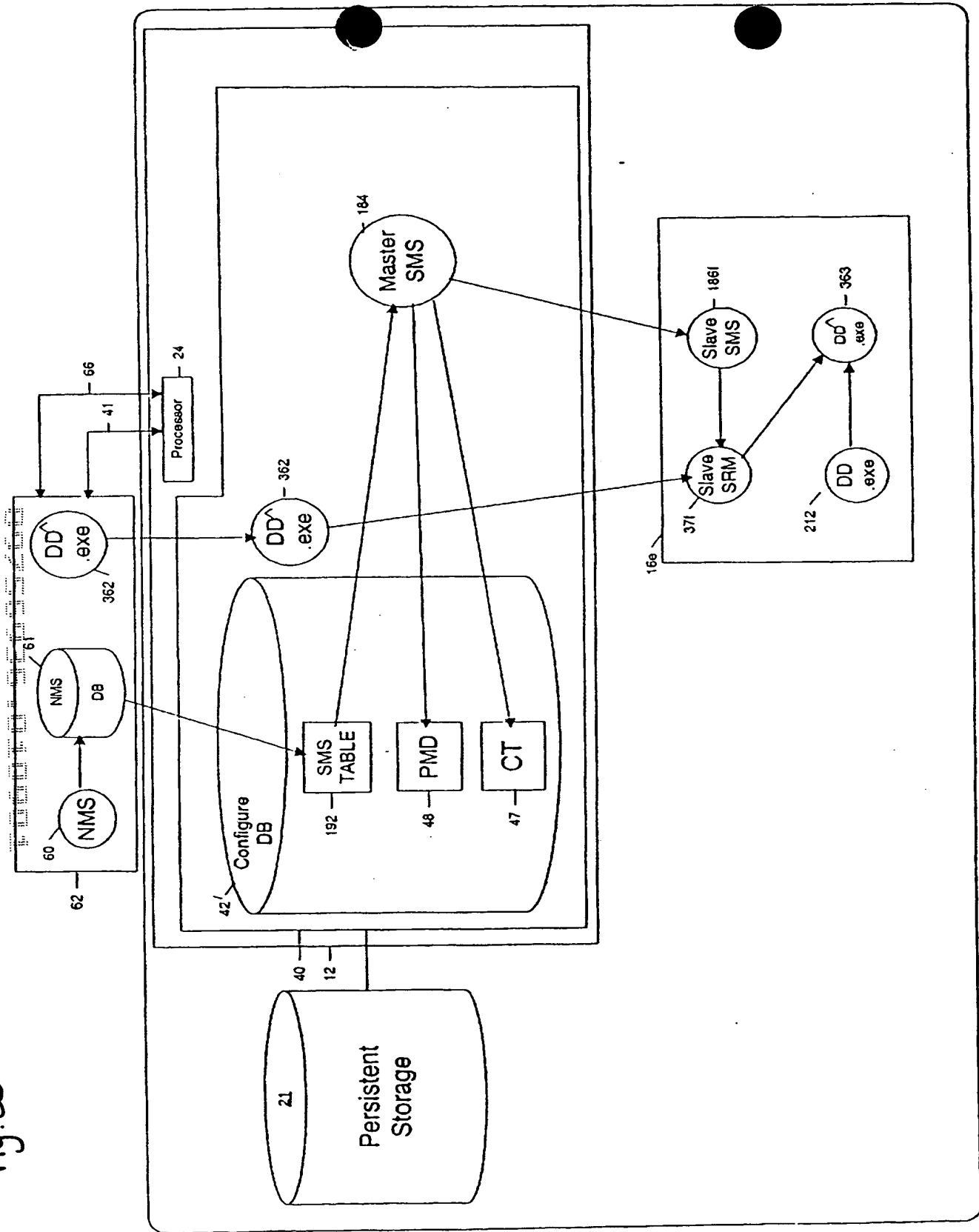


FIG. 24

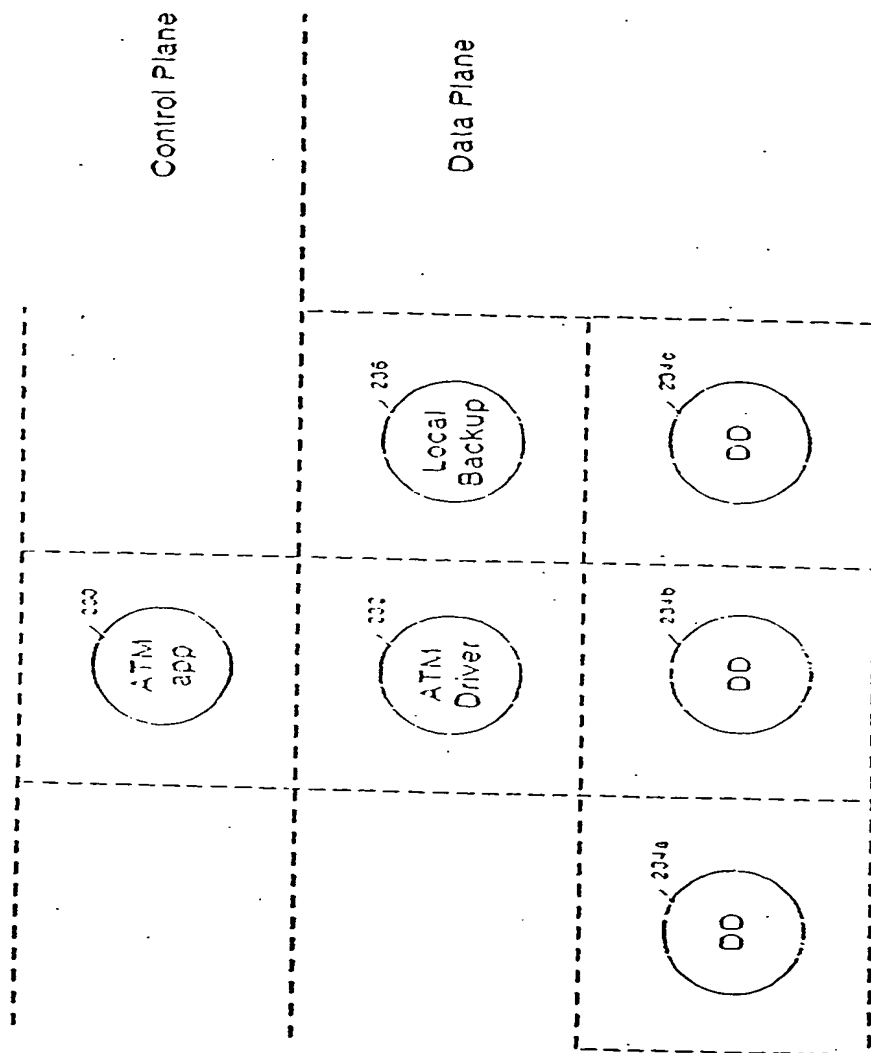
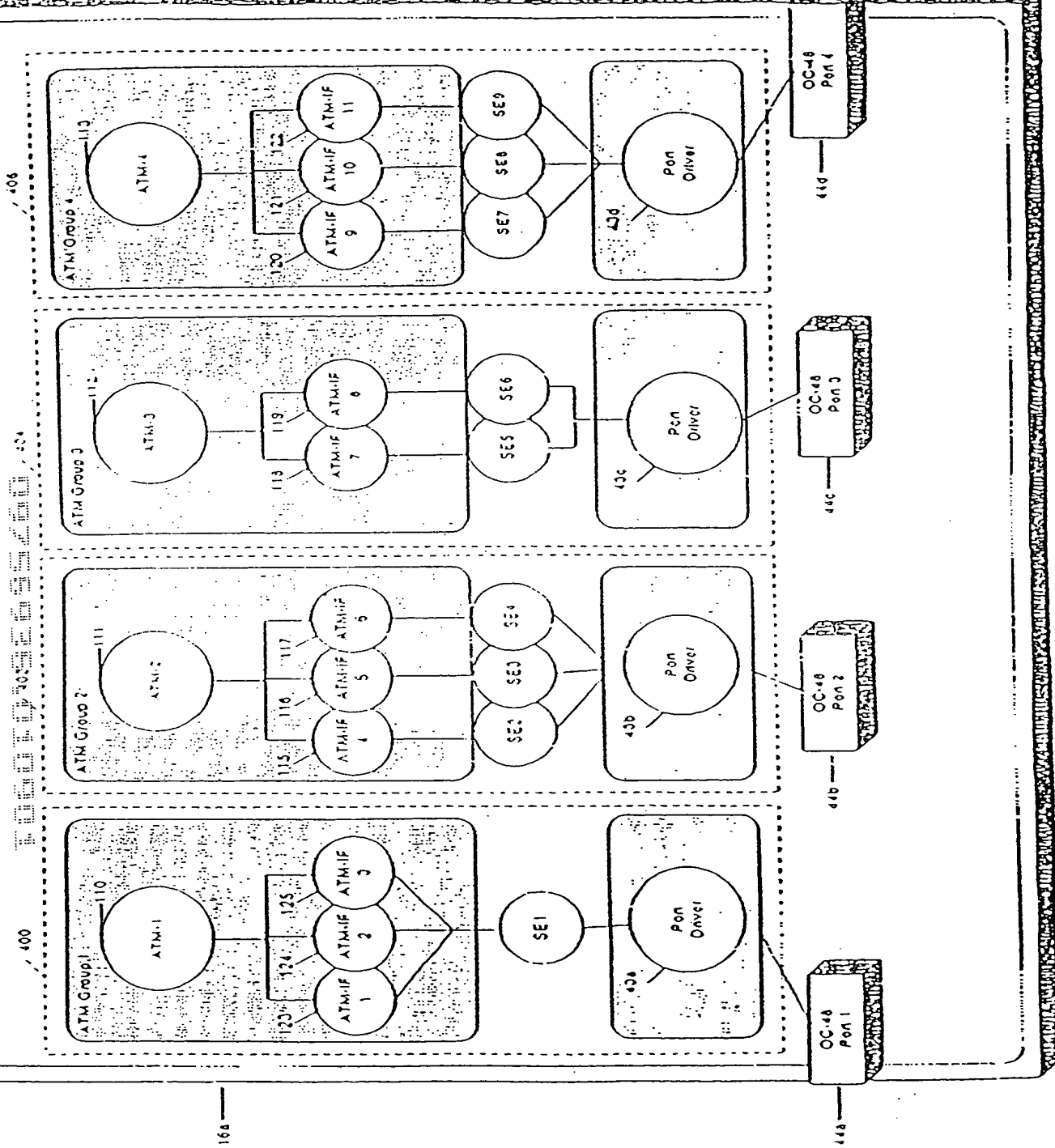


FIG. 25





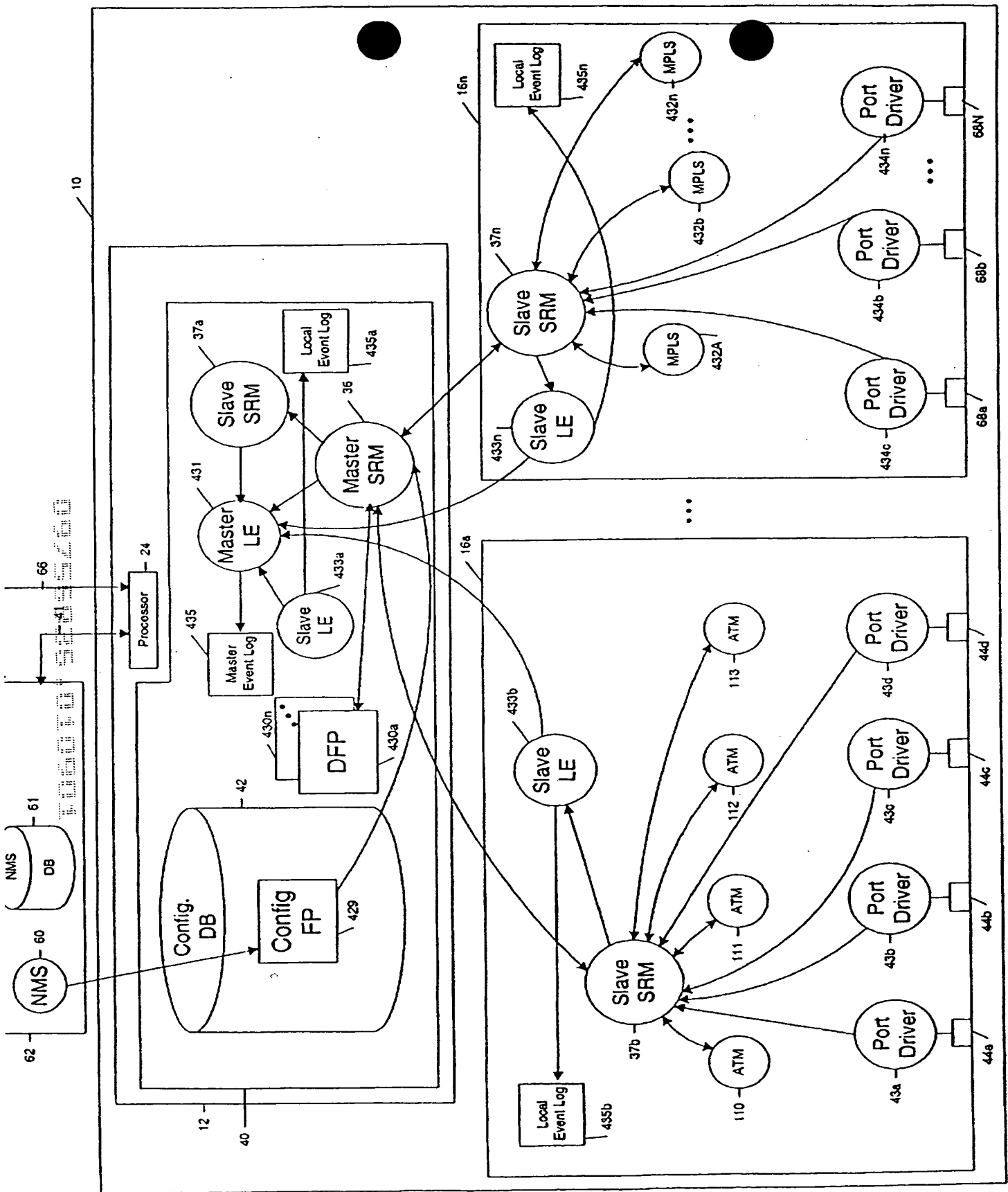
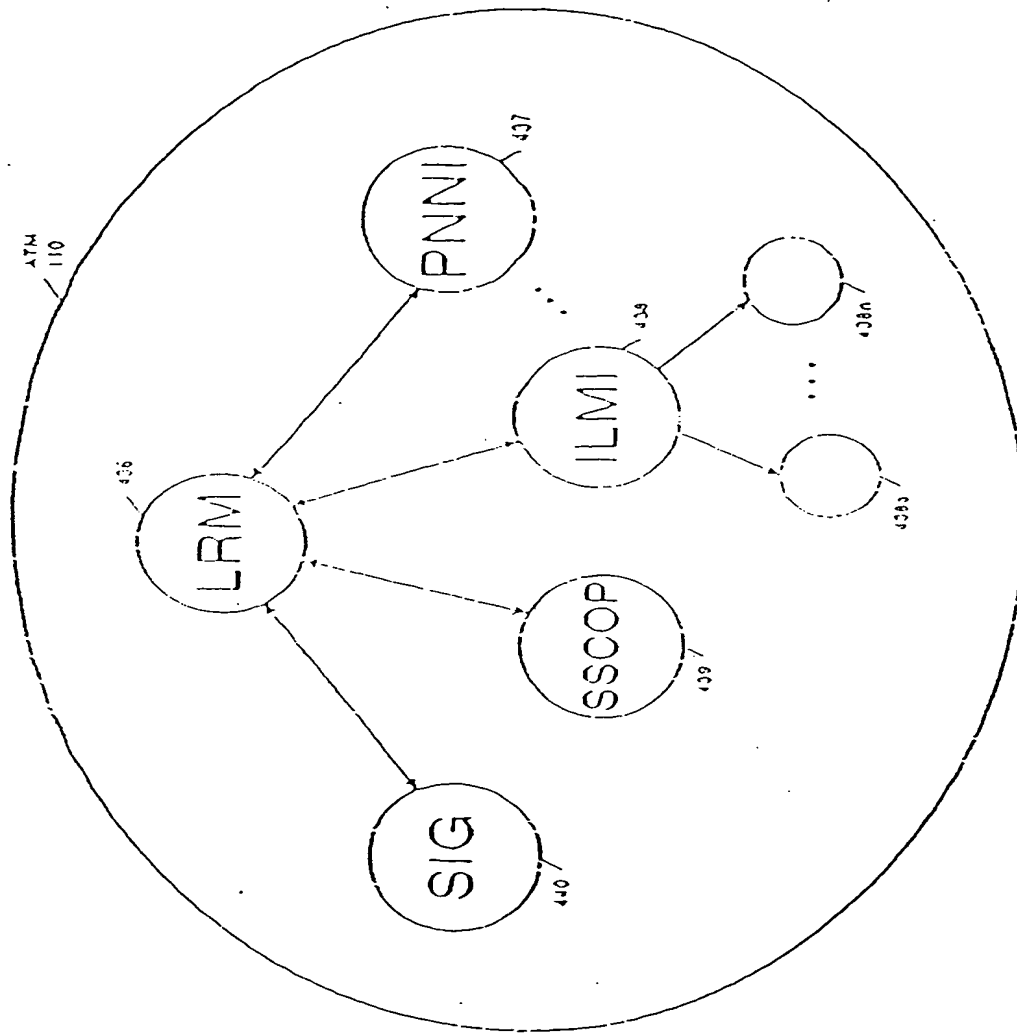


fig 26

FIG. 27

FIG. 27



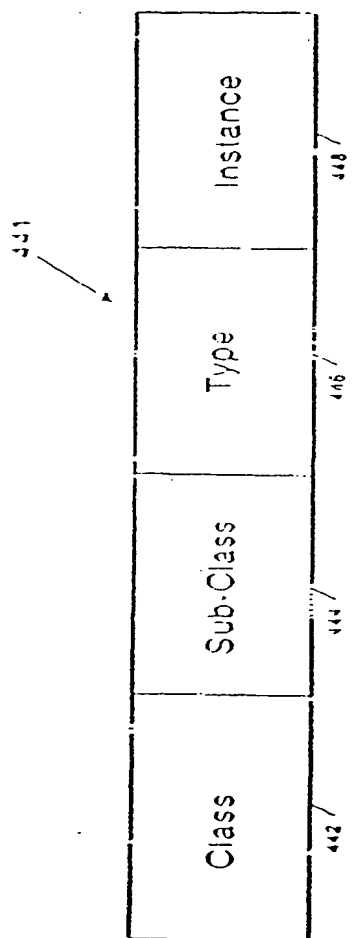
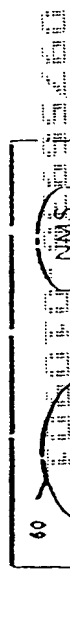


FIG. 29



10

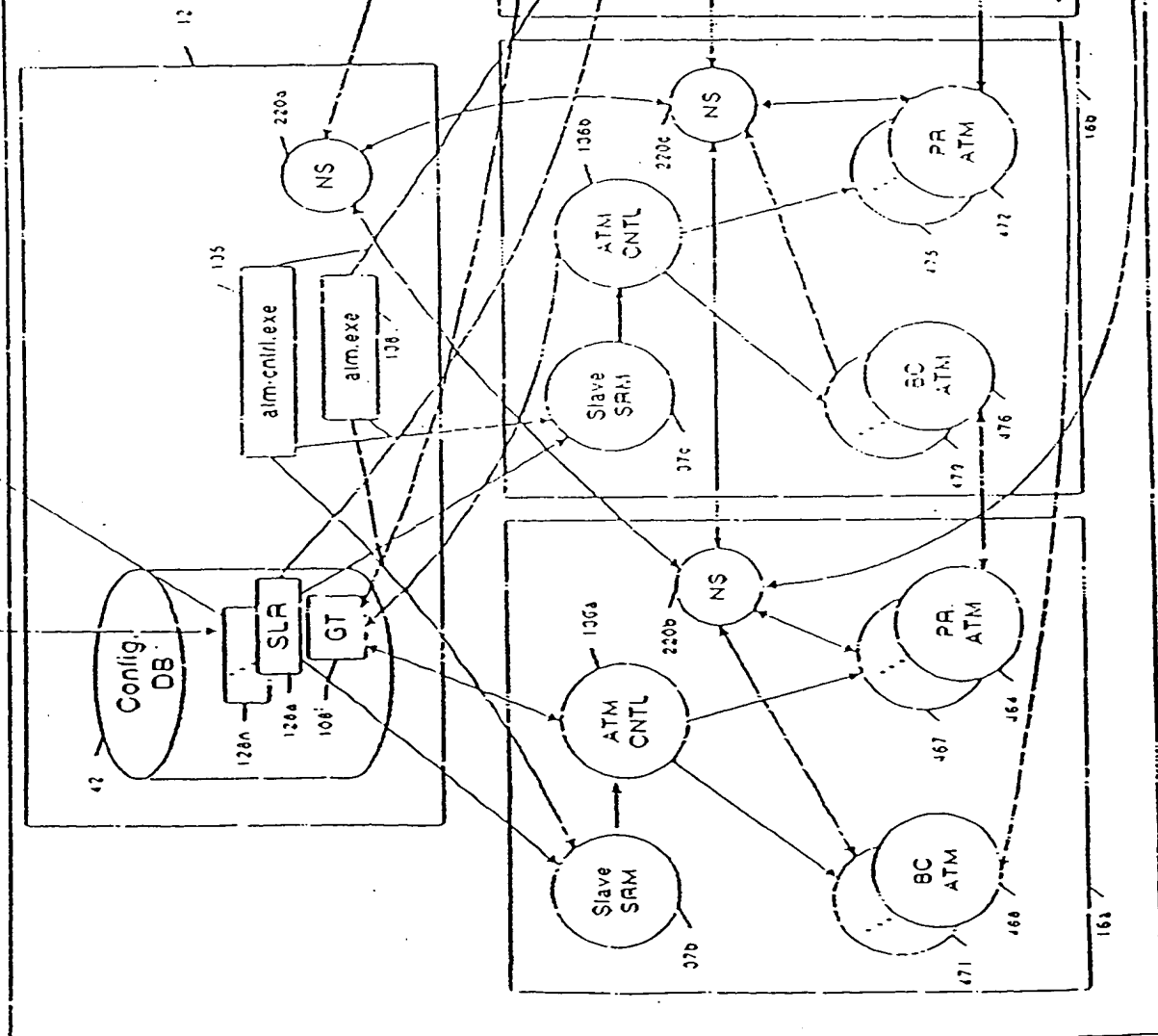


Fig 3D

[illegible]

Fig. 31a

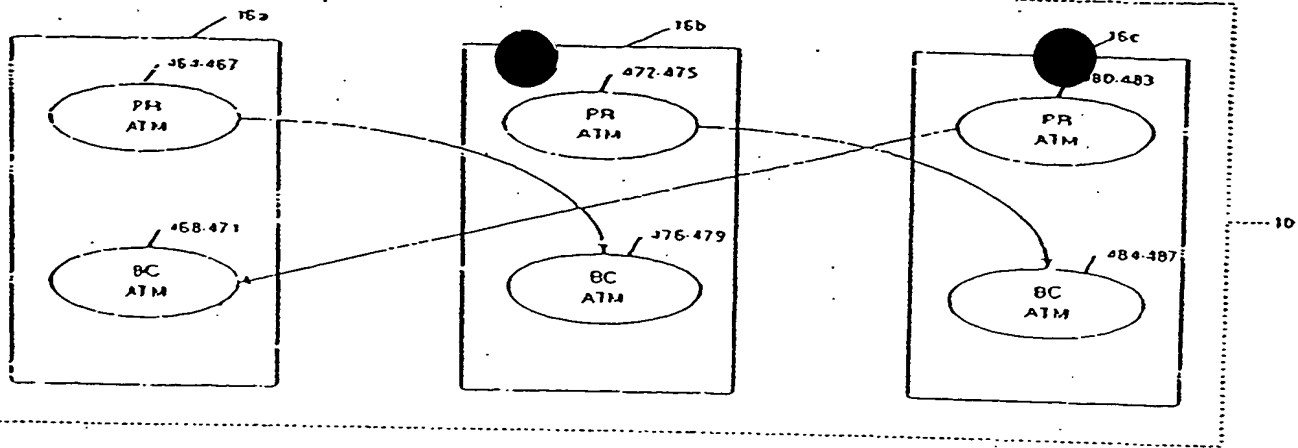


Fig. 31b

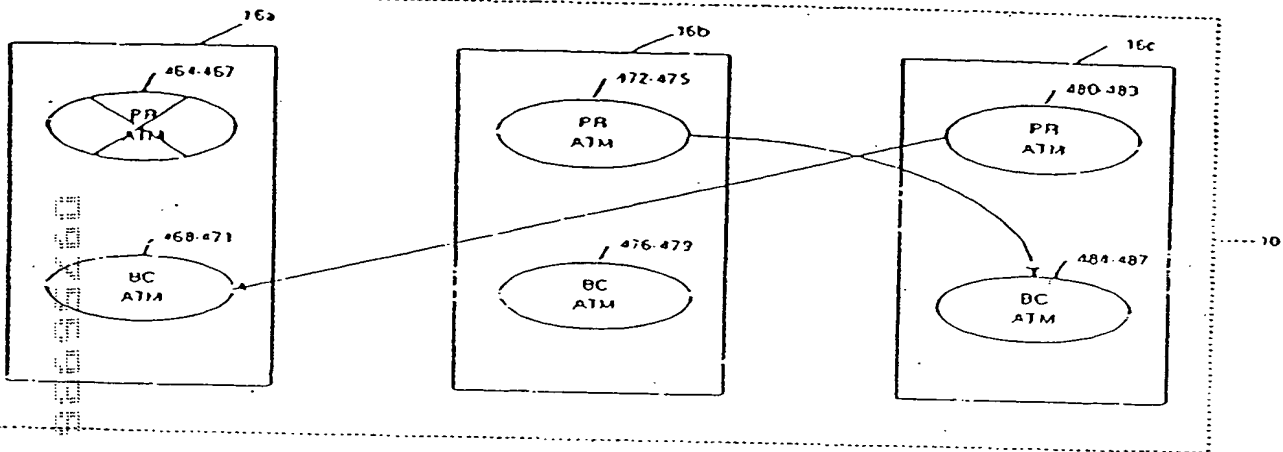
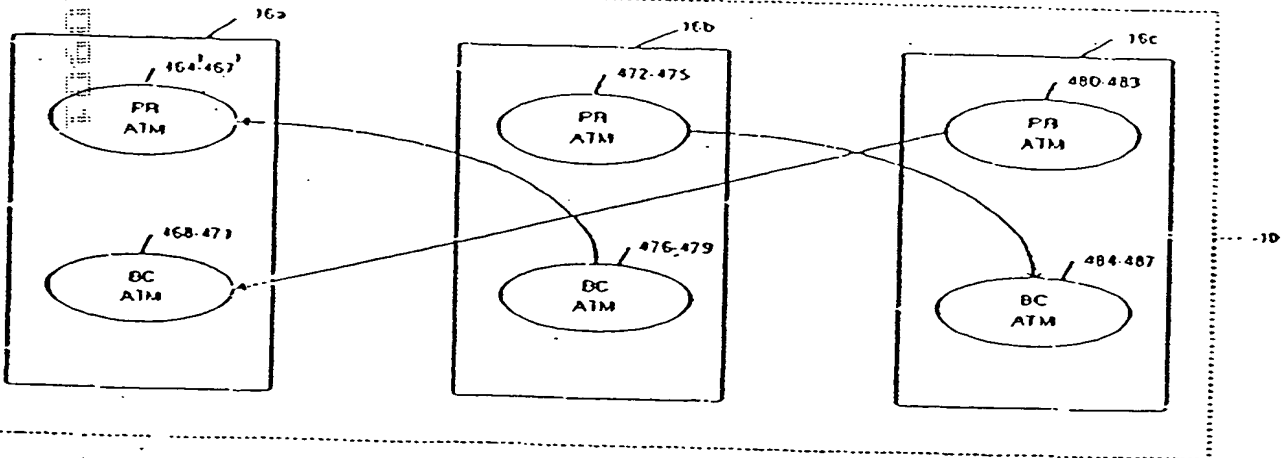


Fig. 31c



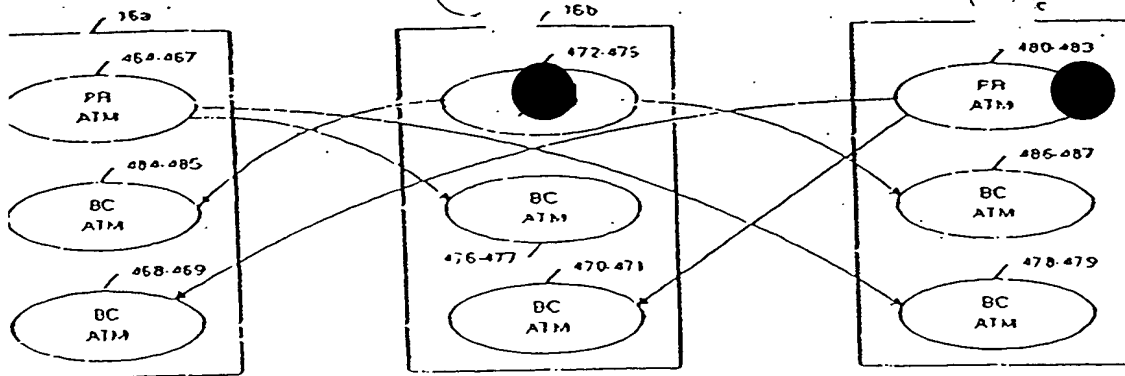


Fig. 32b

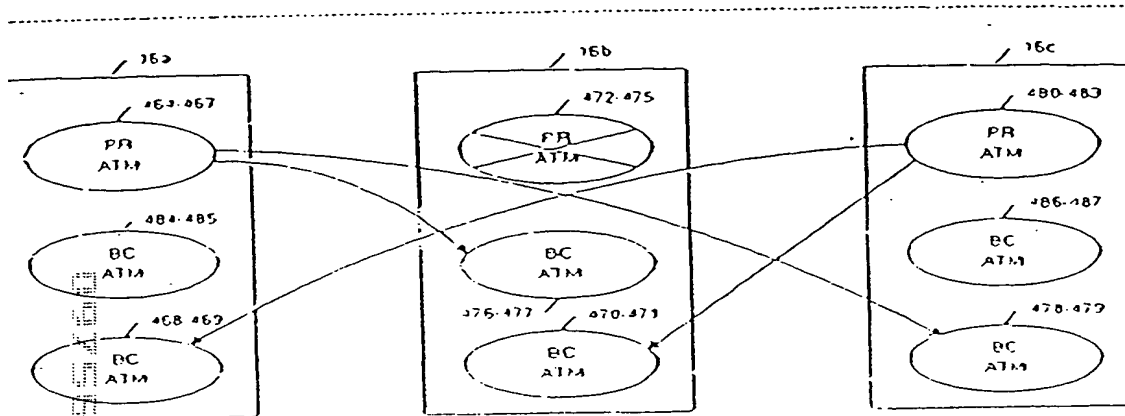


Fig. 32c

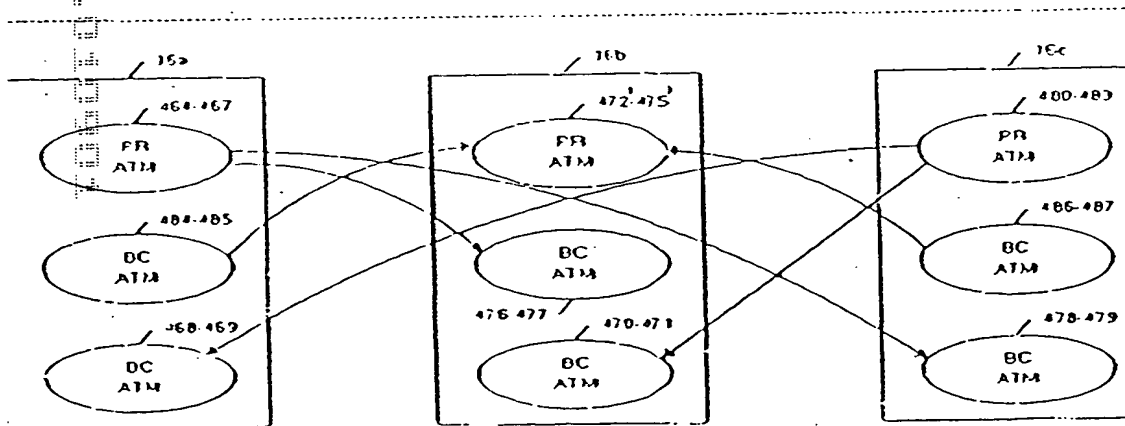


Fig. 32A

fig.  
33a

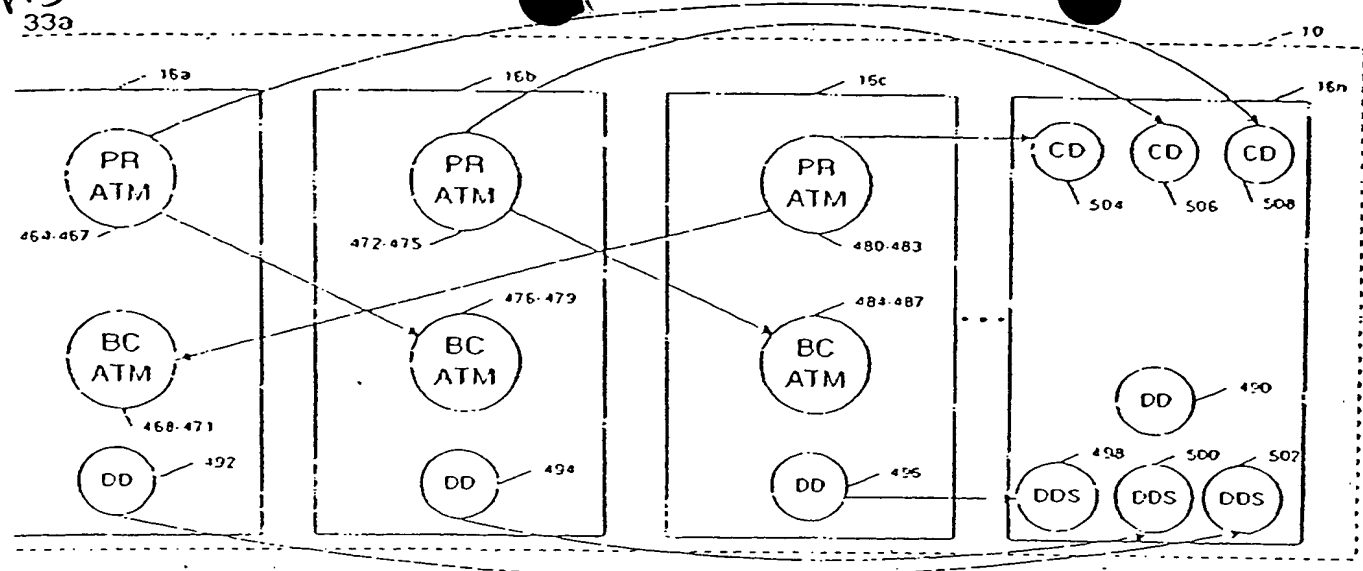


fig.  
33b

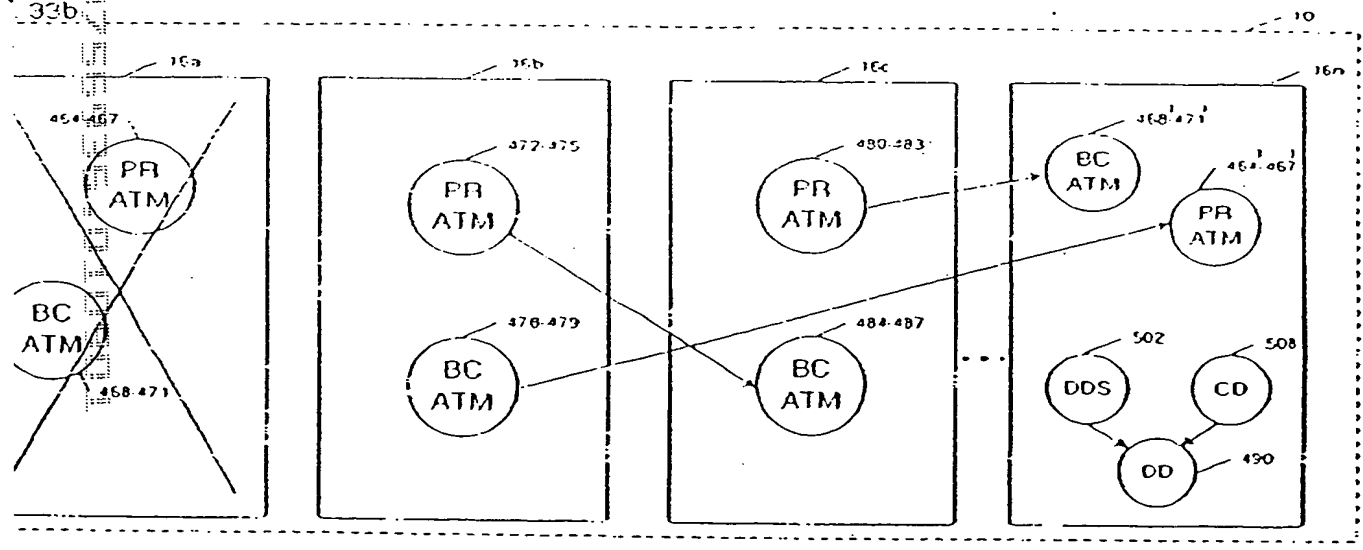




Fig 33c

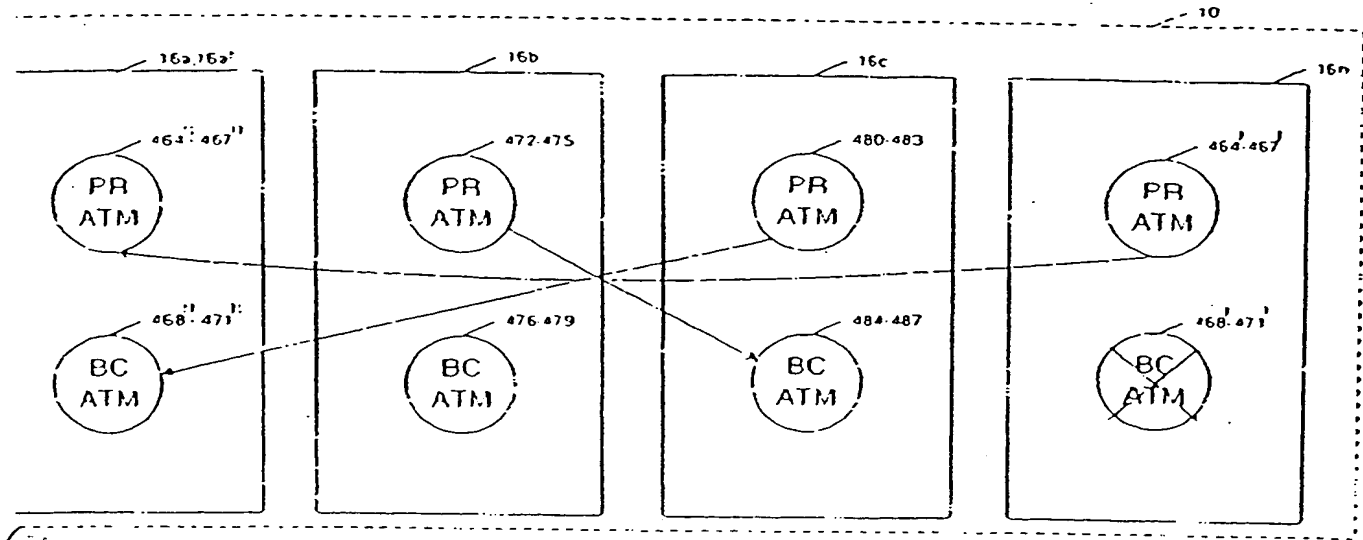


Fig 33d

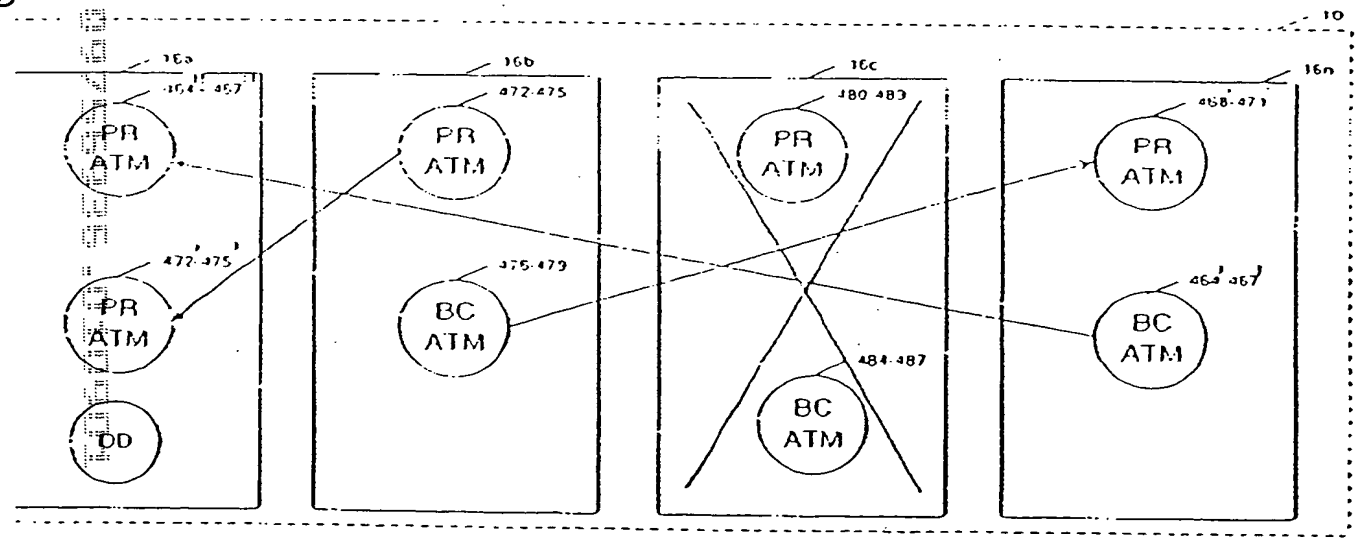


Fig. 34a

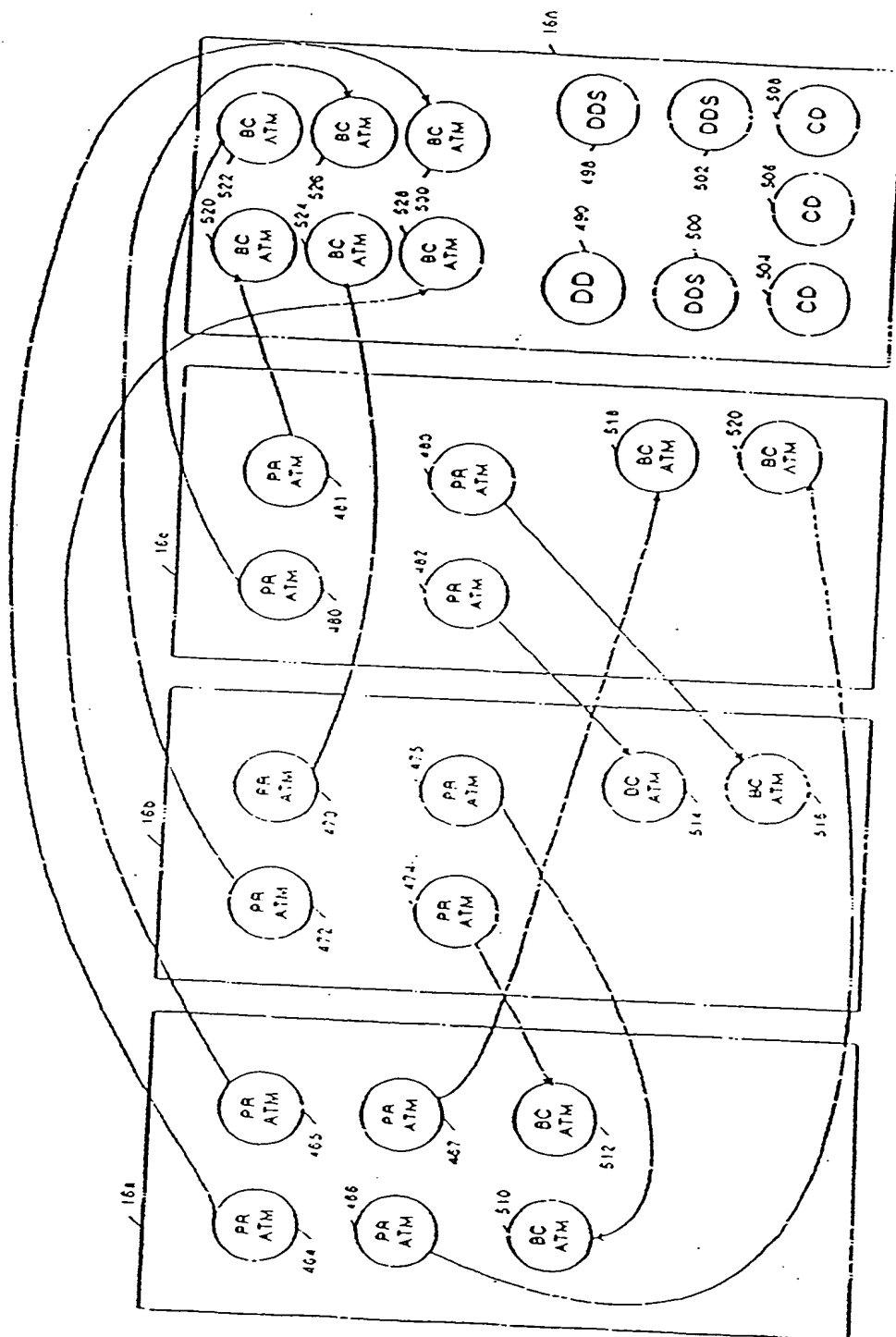


Fig. 35

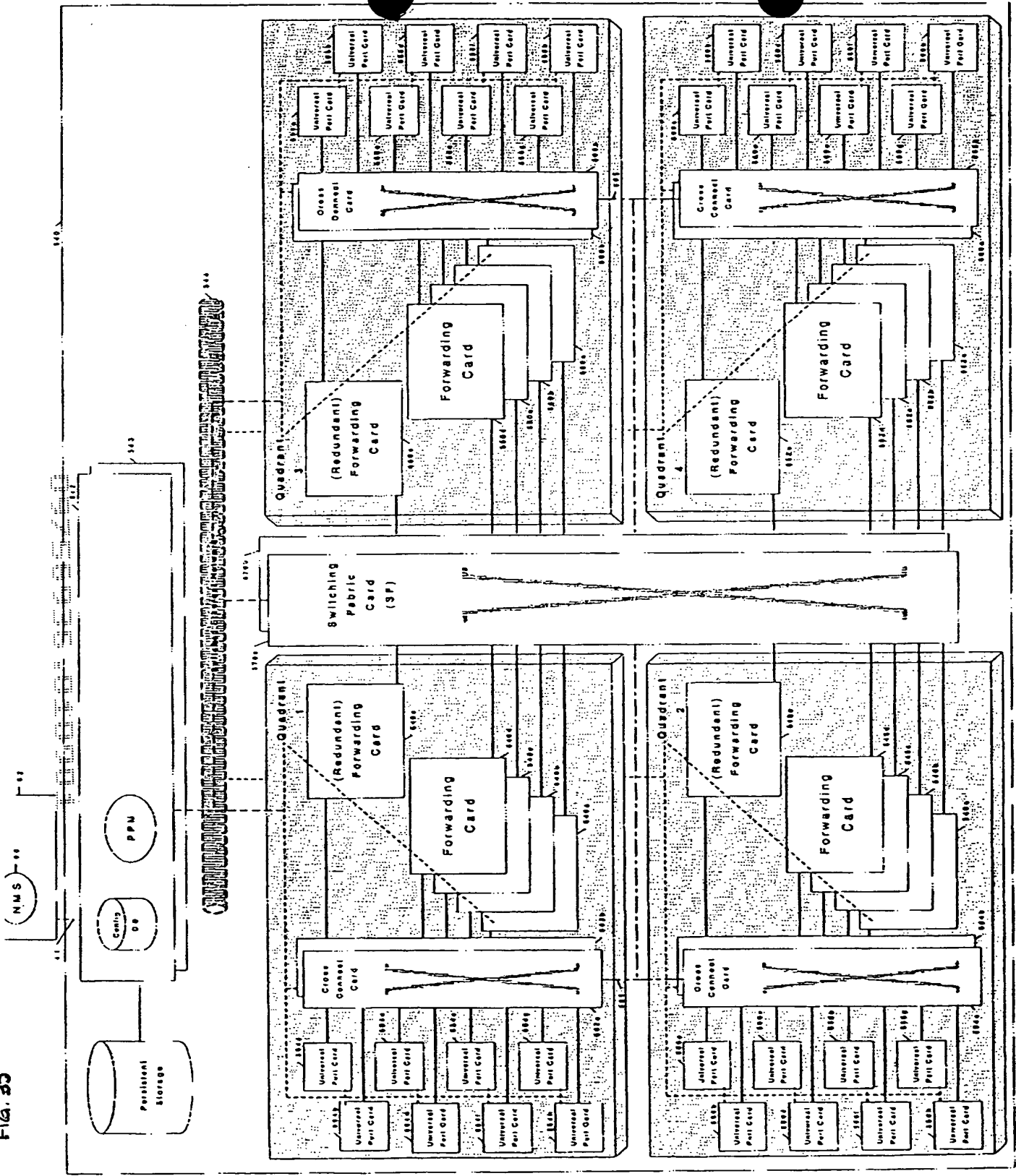


FIG. 36

FIG. 36

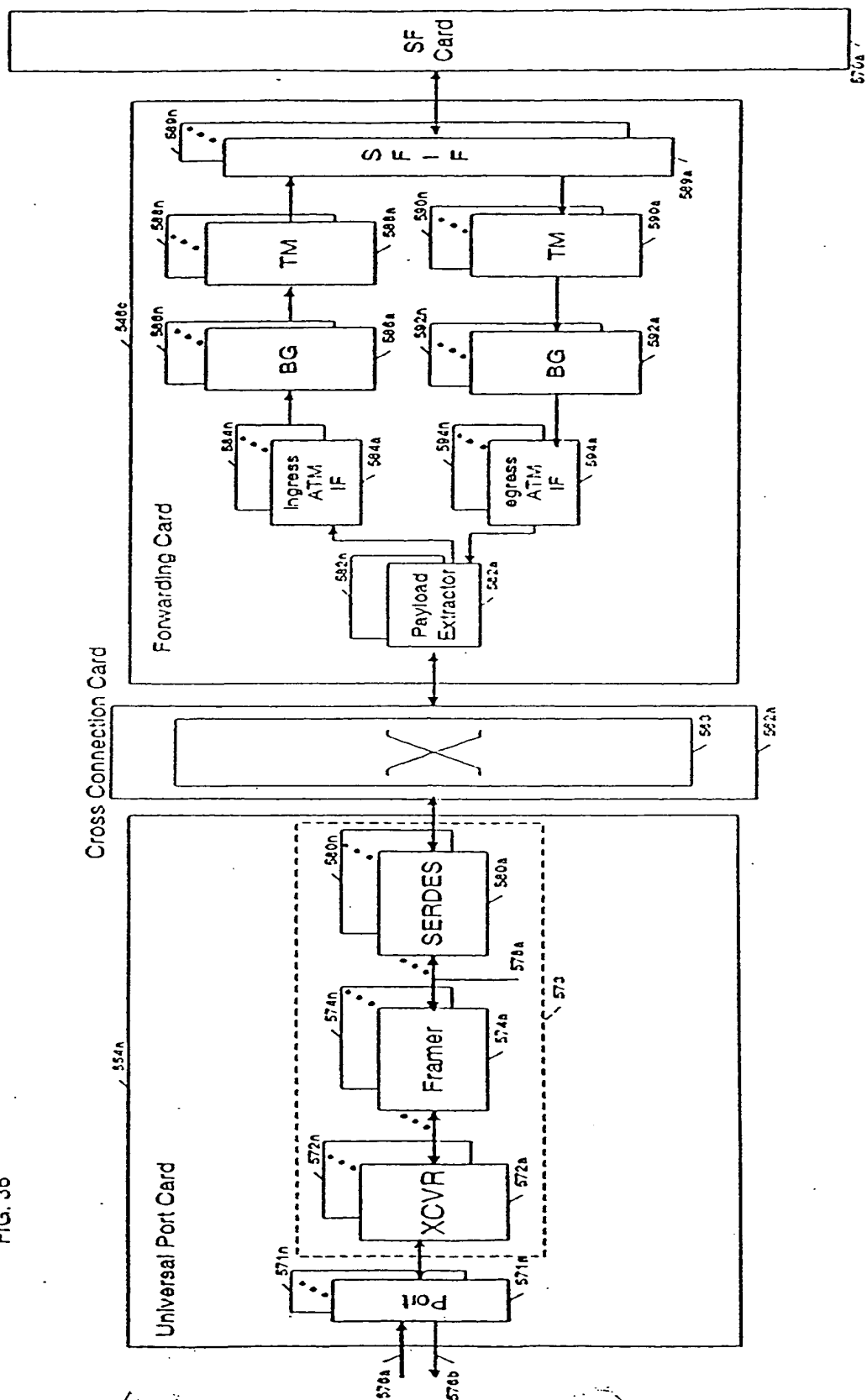


FIG. 37

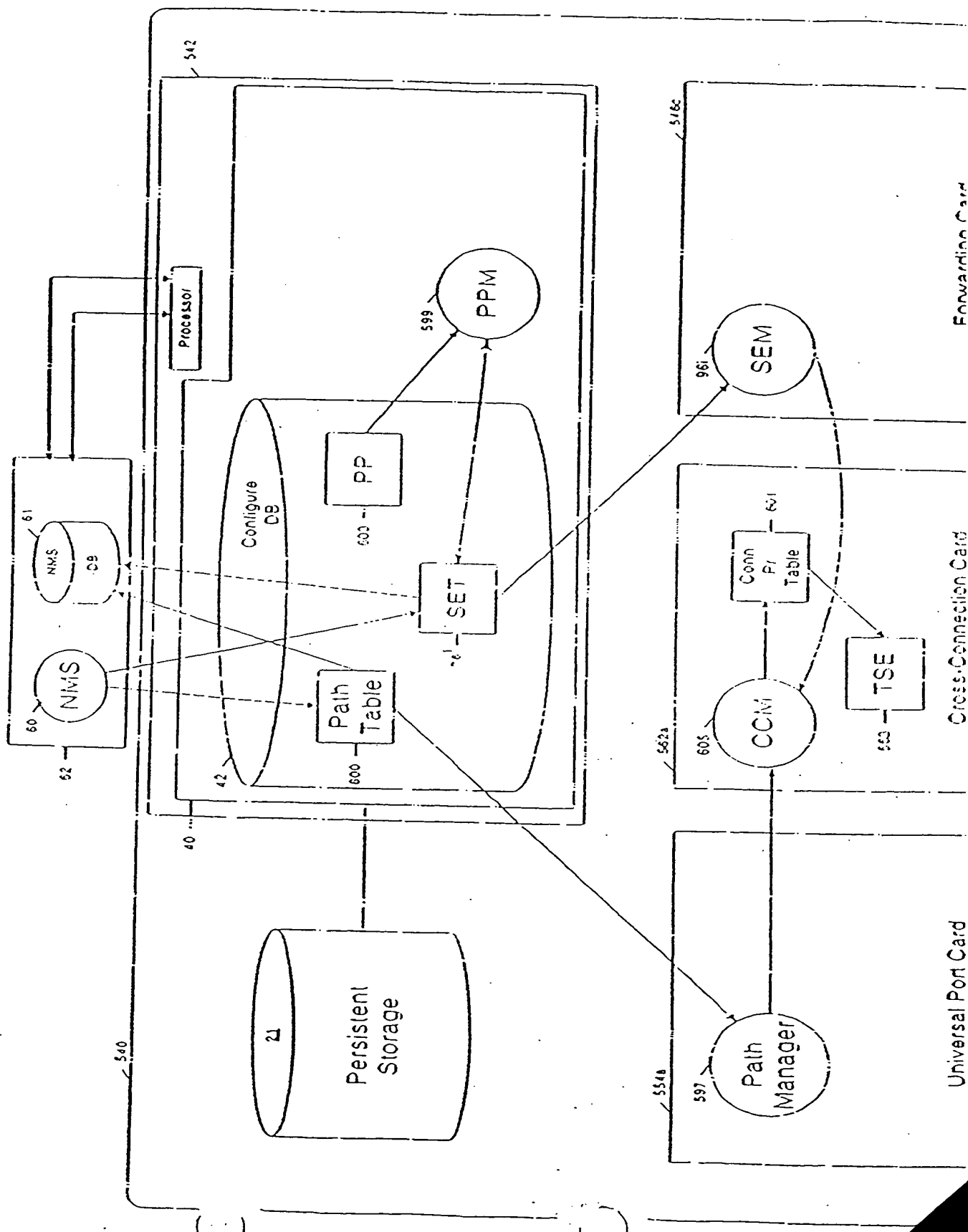


FIG. 38

FIG. 38

Path Table 600

602

| Path LID | UP Port LID | Time Slot | # of Time Slots | ... |
|----------|-------------|-----------|-----------------|-----|
| 1666     | 1231        | 4         | 3               |     |
| ...      | ...         | ...       | ...             | ... |

FIG. 39

FIG. 39

Service End Point Table 76'

| SE # | Q # | FC LID | FC Slice | FC Time Slot | Path PID | ... |
|------|-----|--------|----------|--------------|----------|-----|
|      |     |        |          |              |          |     |
| 878  | 1   |        |          |              | 1666     |     |
| ...  | ... | ...    | ...      | ...          | ...      | ... |

00756936-040004

540 →

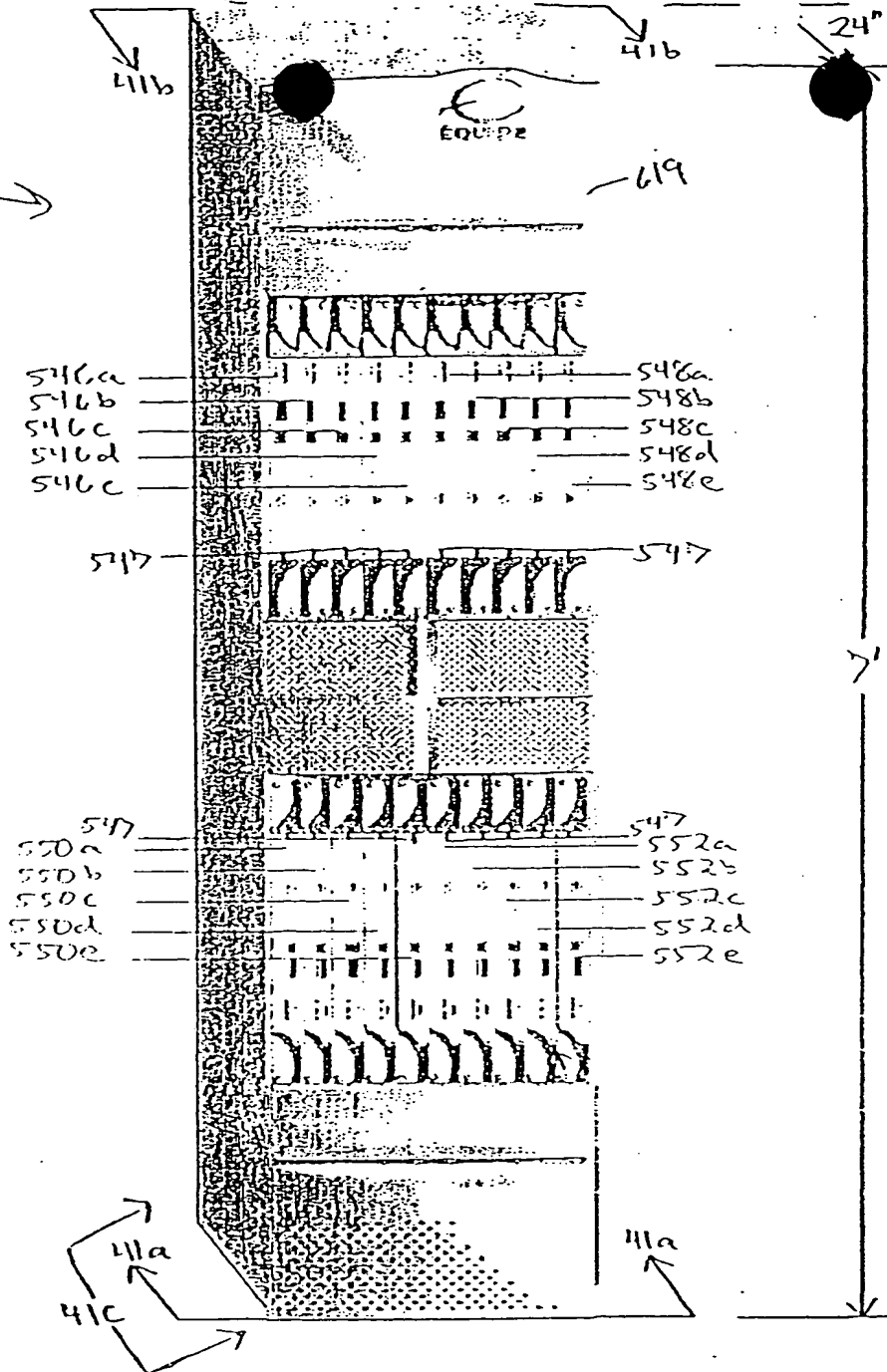
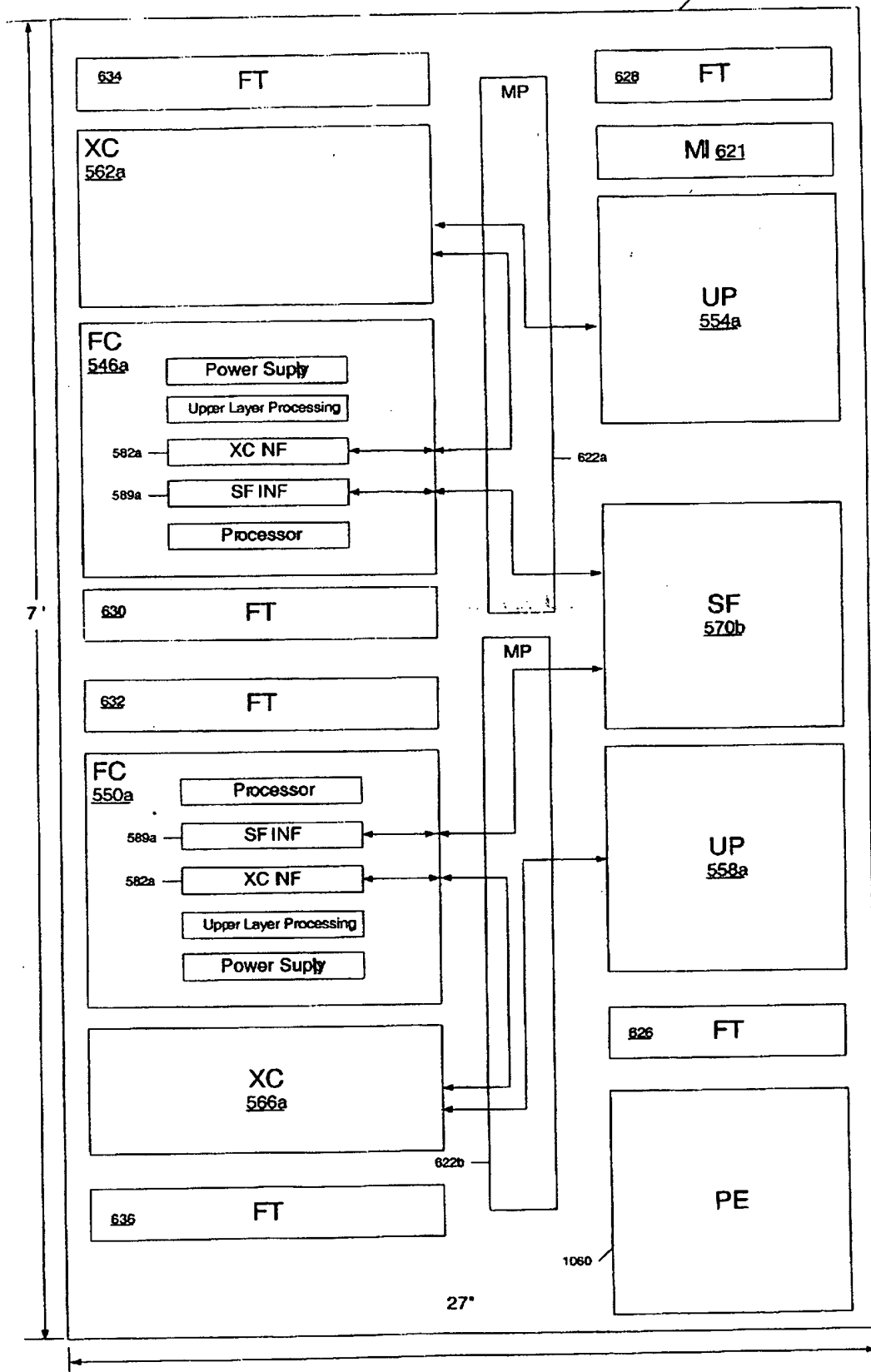


Fig. 40





FIG. 41c  
Side



005693-0000

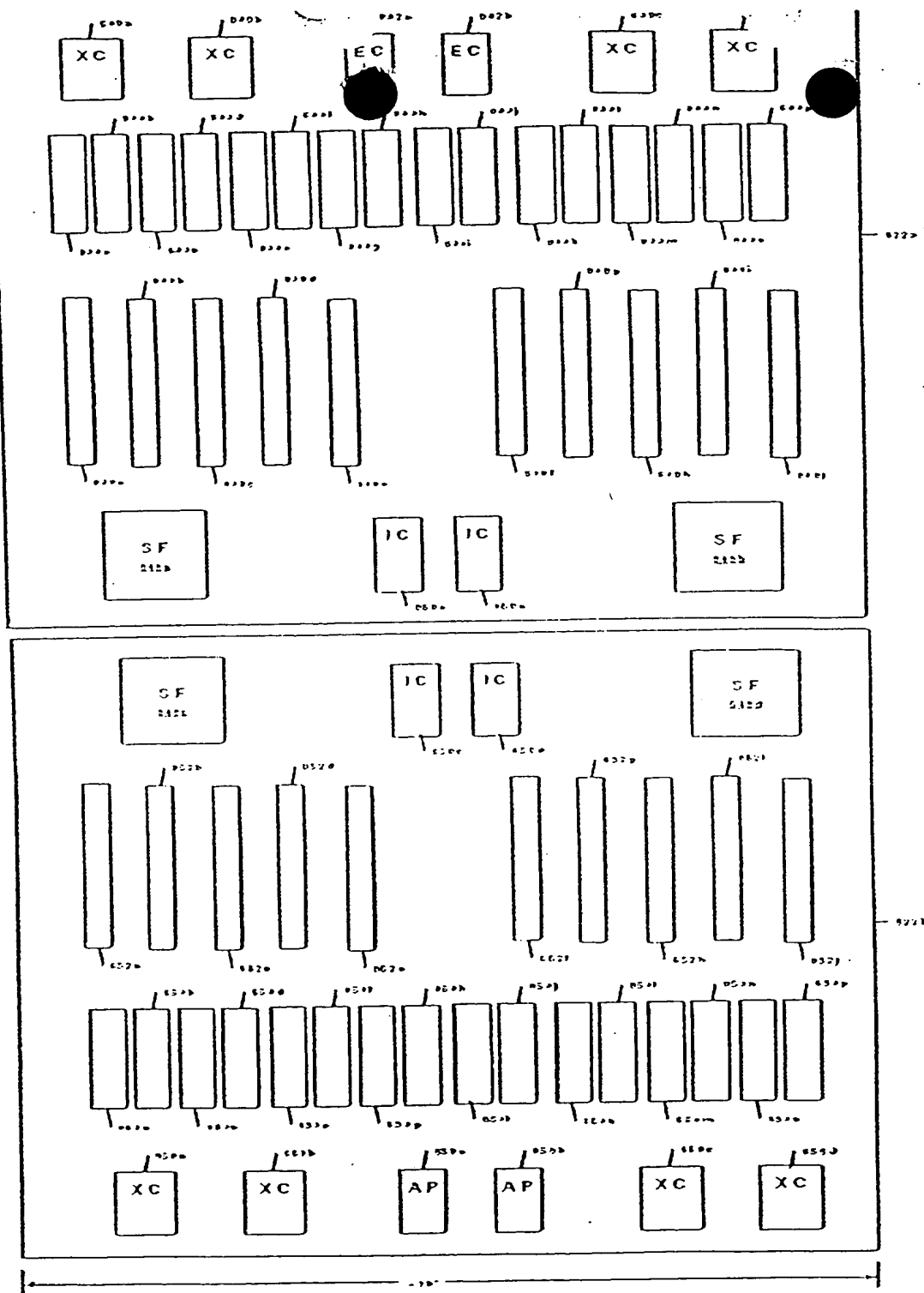
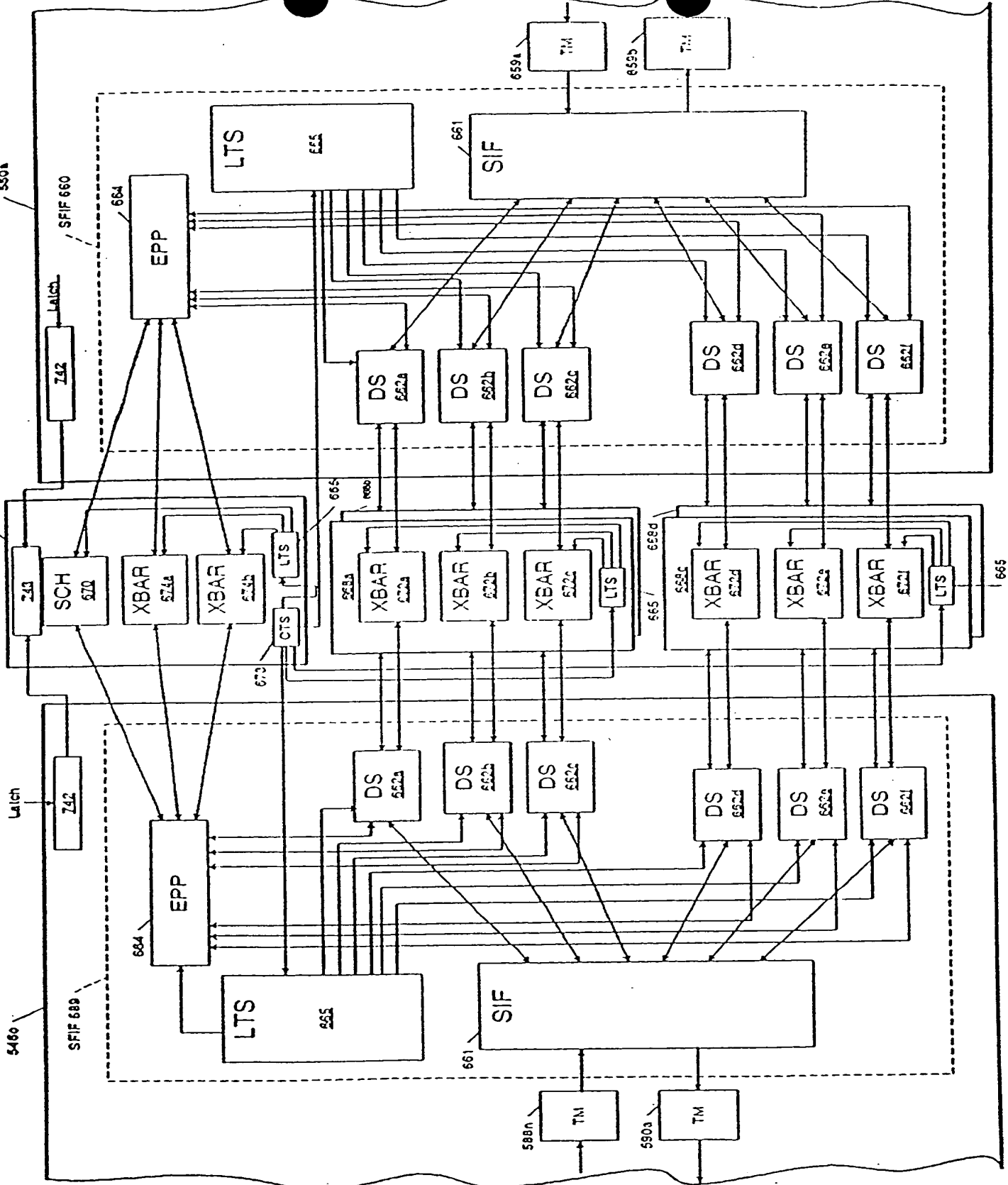


Fig. 42

FIG. 43



66000 3603000  
540

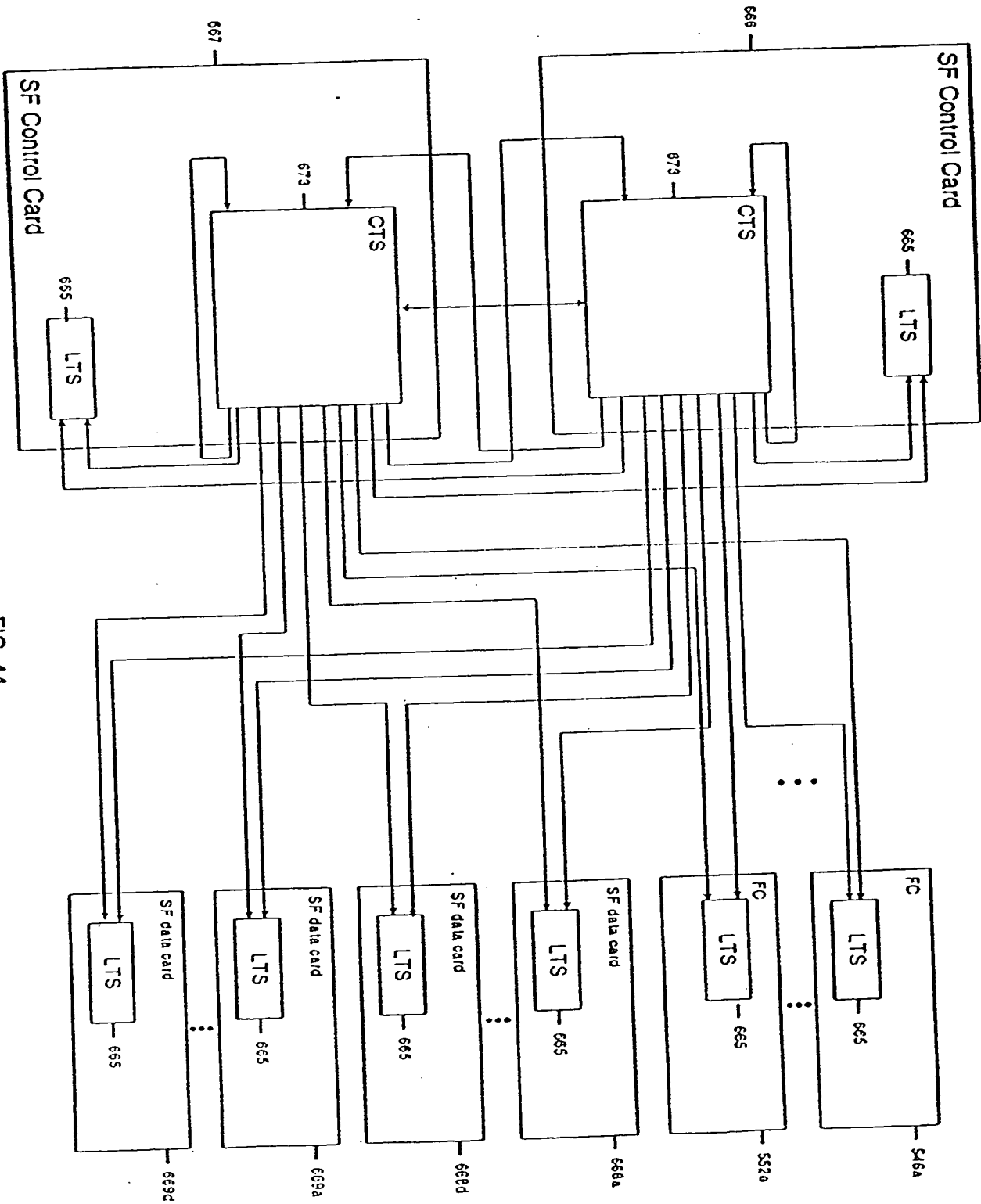
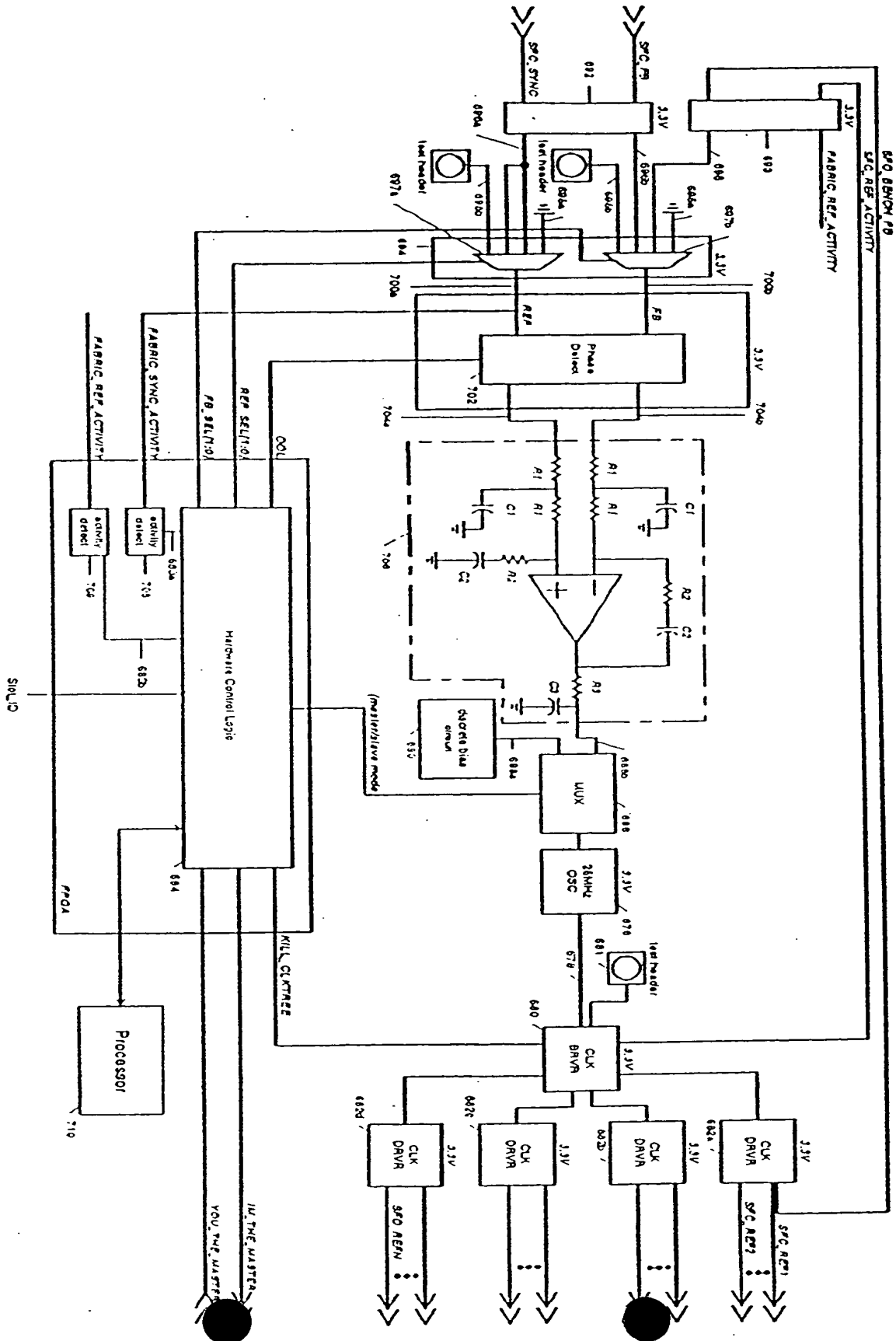


FIG. 44

CTS 673



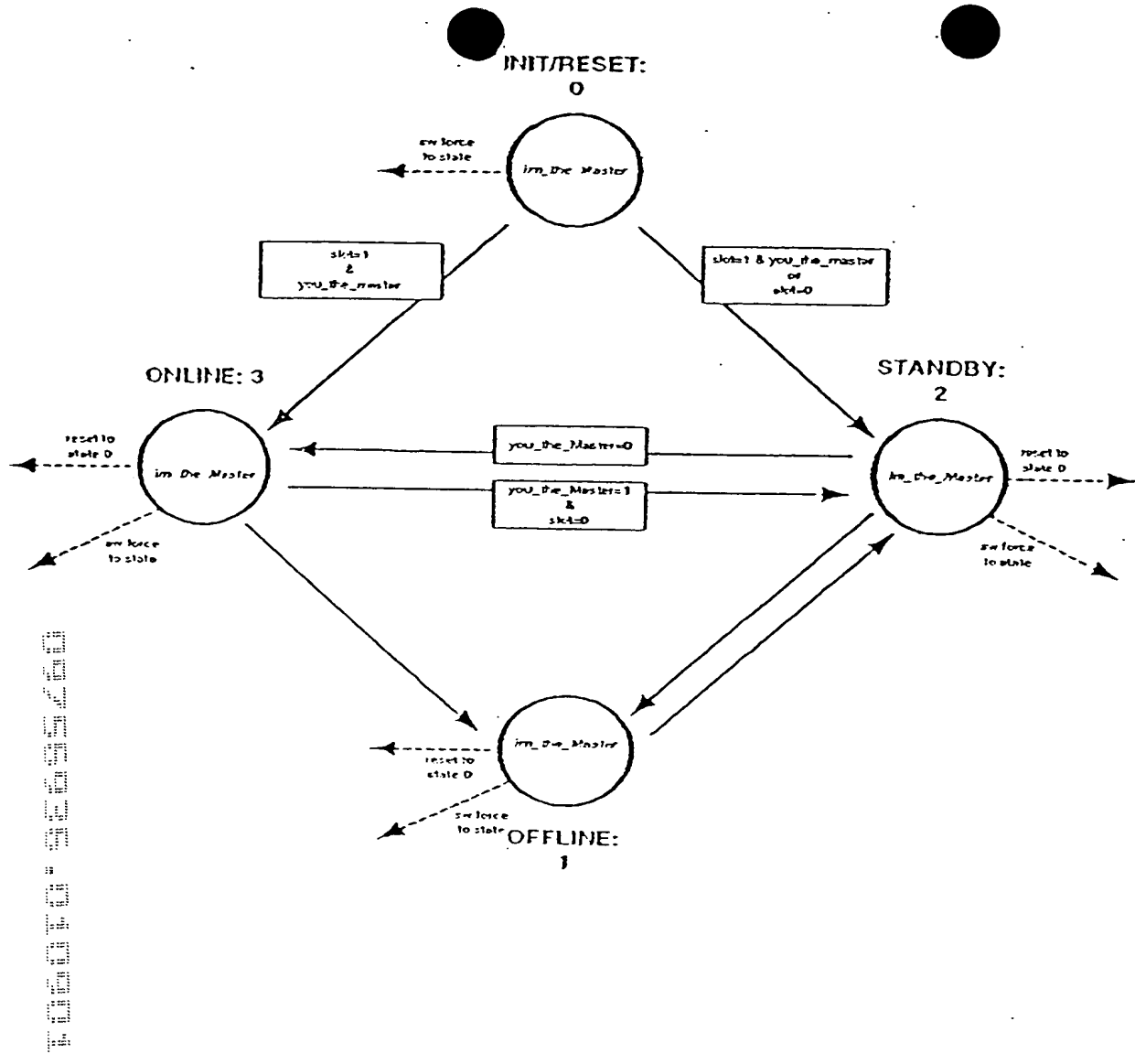
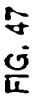


FIG. 46

599





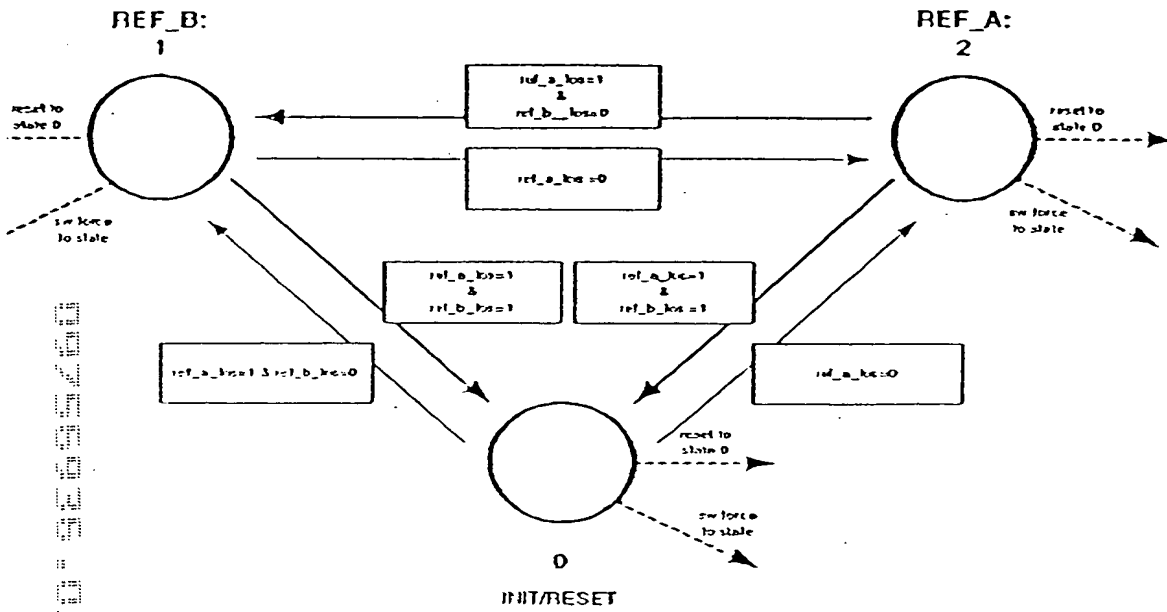


FIG. 48

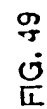


FIG. 49



**FIG. 50**

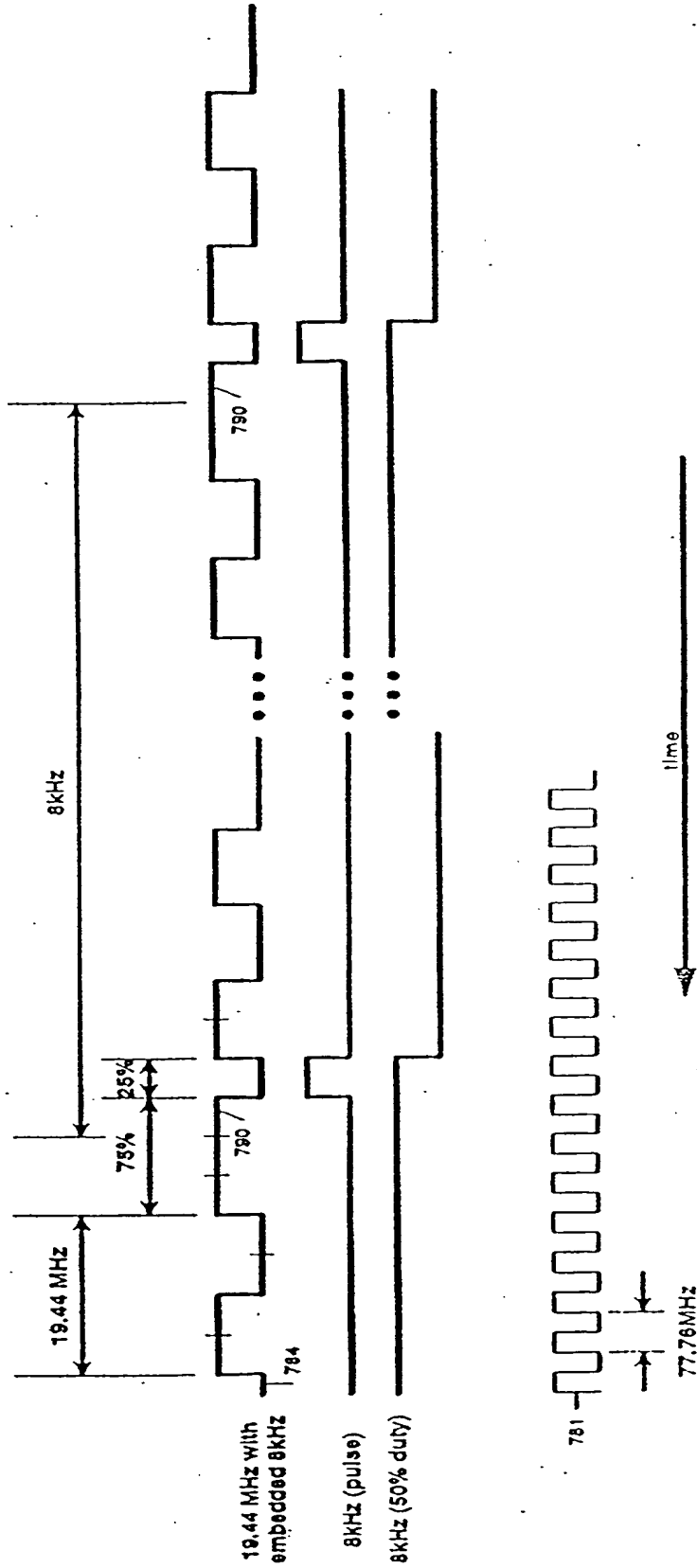


FIG. 51

781 795 2031

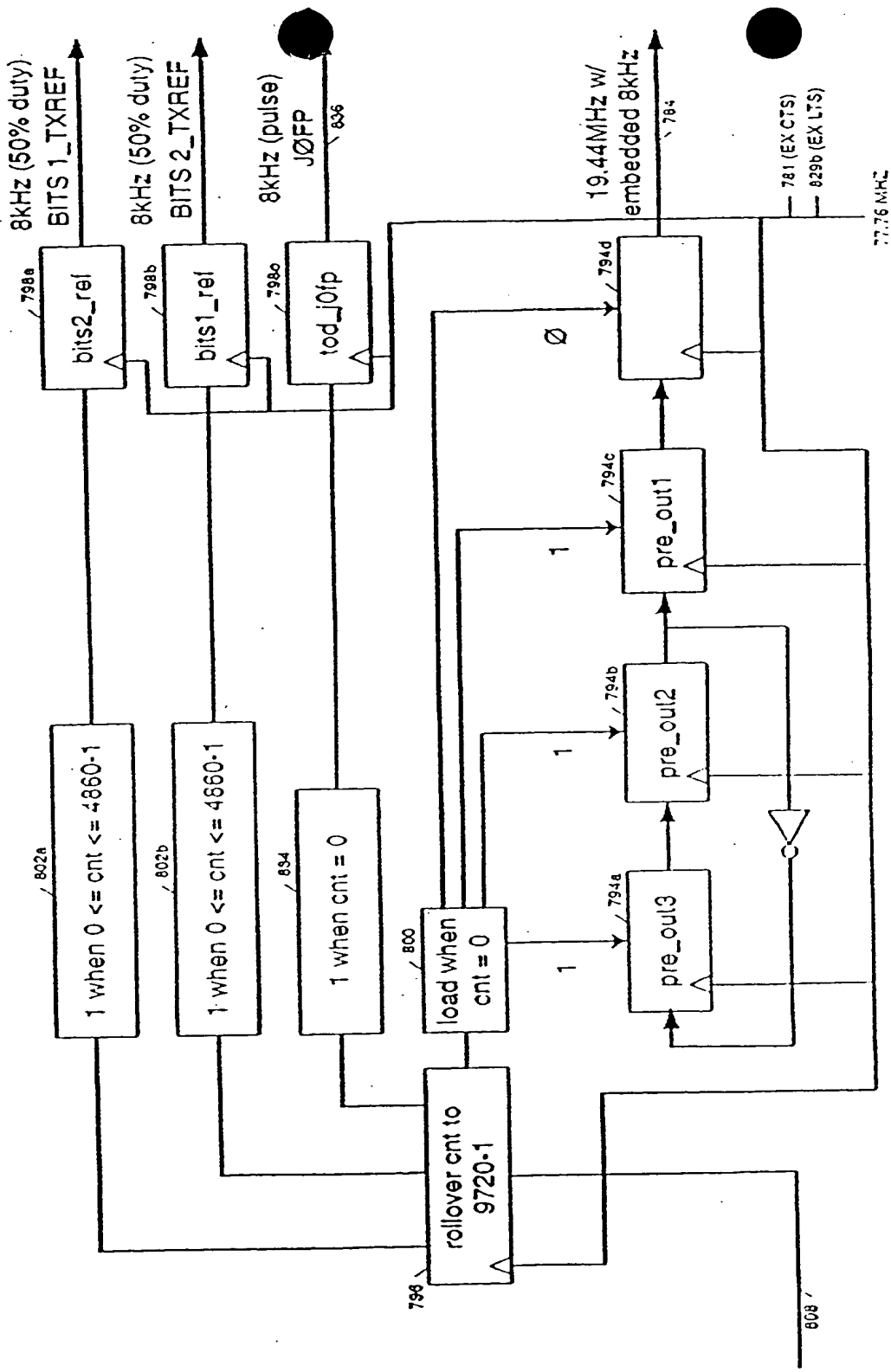
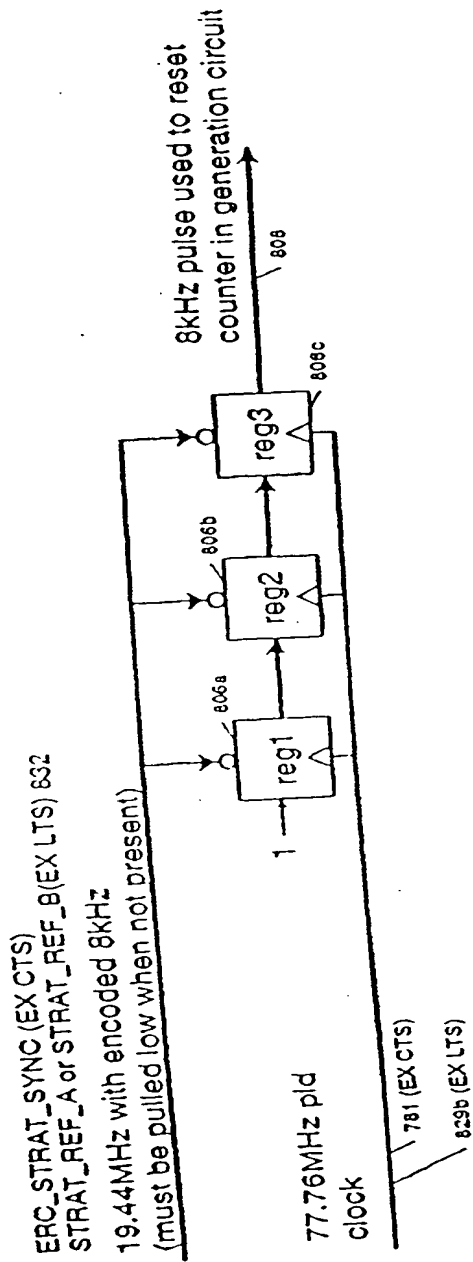


Fig. 52

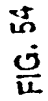
781 795 2031

804

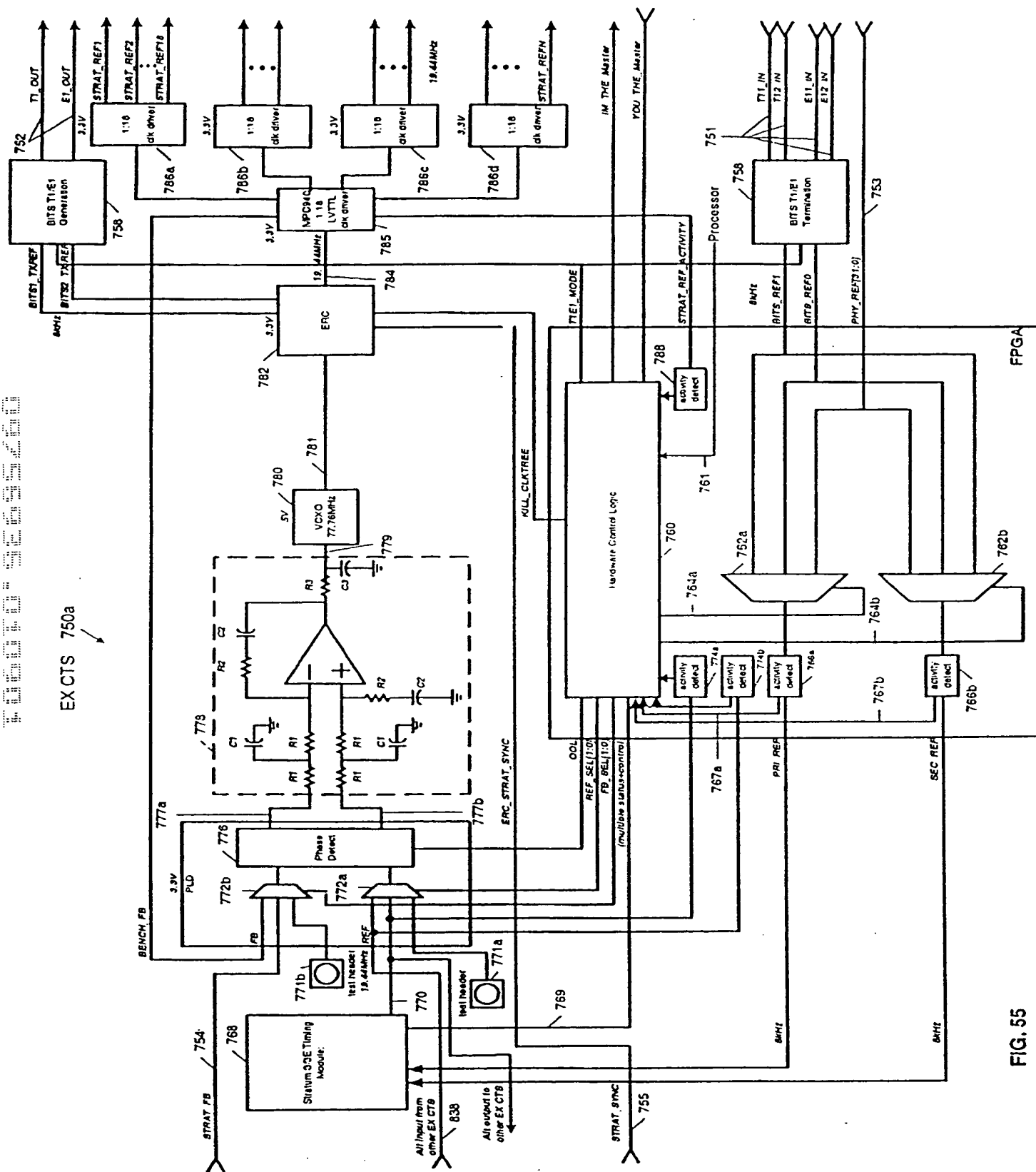


Extractor

FIG. 53



55. 613



**FIG. 55**



FIG. 56

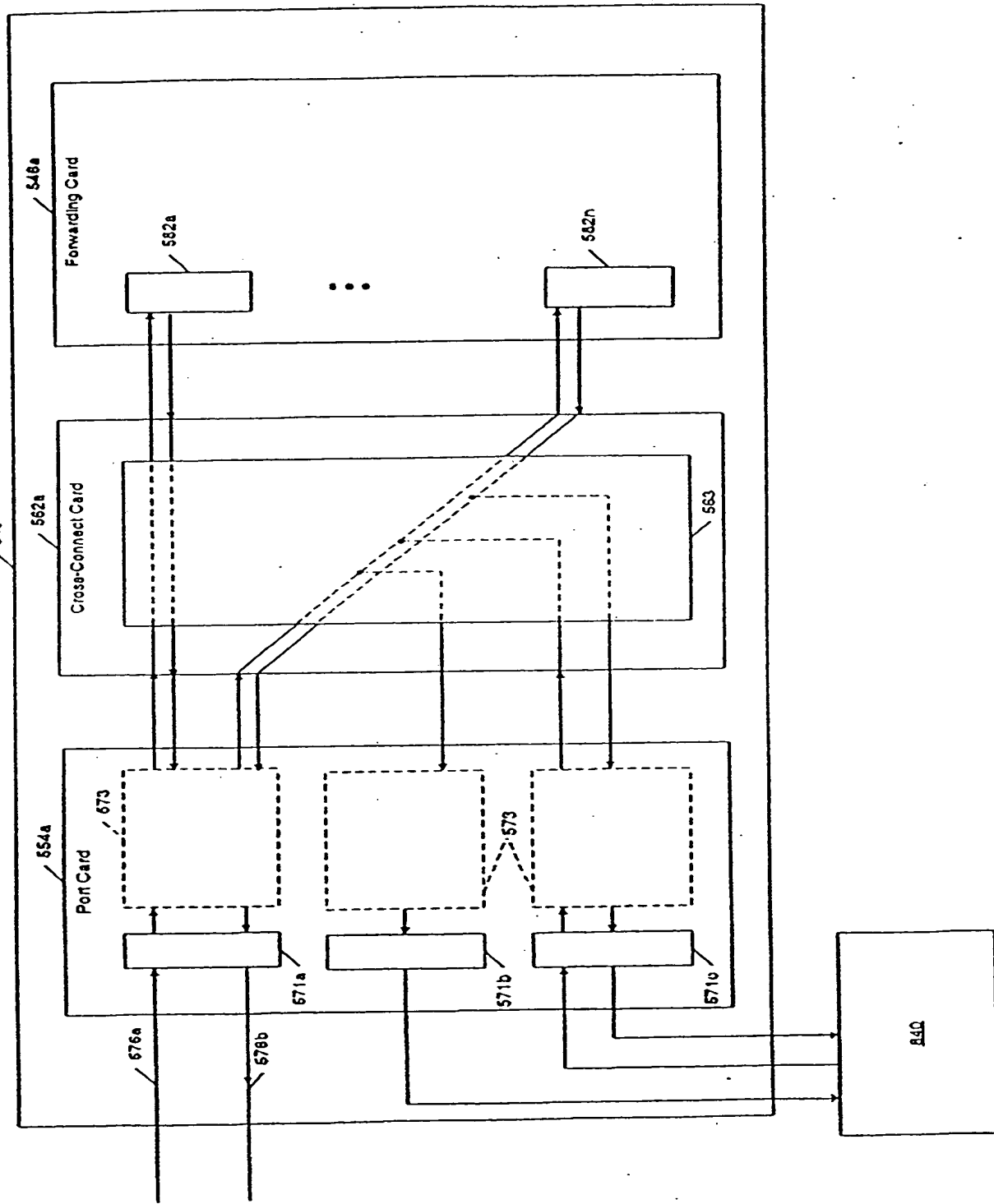


Fig. 56

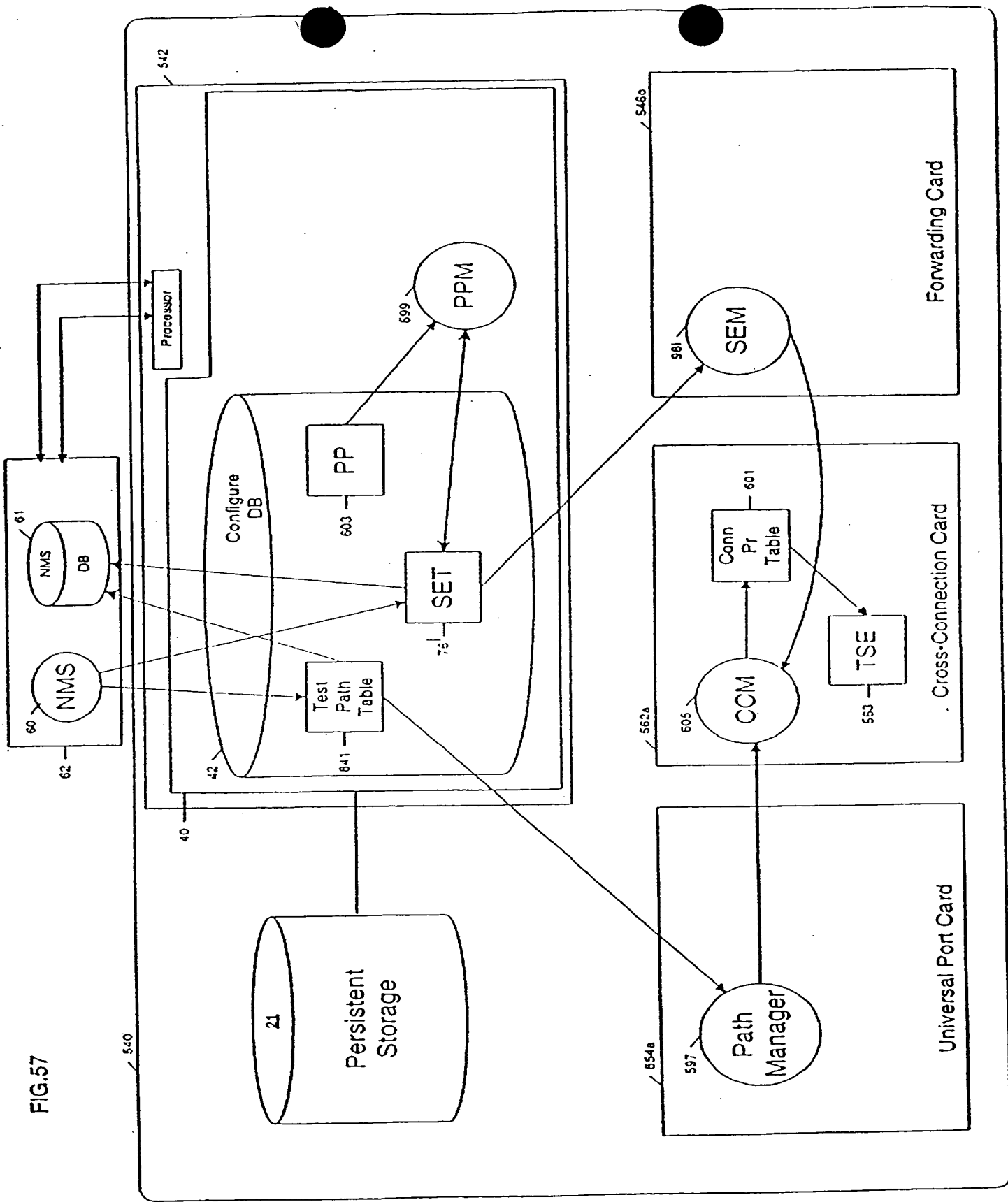


FIG. 58

Test Path Table 841

| Path LID | UP Port LID | Time Slot | # of Time Slots | Monitor | Enable Port Receiver | ... |
|----------|-------------|-----------|-----------------|---------|----------------------|-----|
| 1666     | 1232        | 4         | 3               | Ingress | No                   |     |
| 1666     | 1233        | 4         | 3               | Egress  | No                   |     |
| 1666     | 1233        | 4         | 3               | Ingress | Yes                  |     |
| ...      | ...         | ...       | ...             |         |                      | ... |

781 795 2031; Oct-9-00 6:54PM; Page 5

Sent By: Equipe Communications;

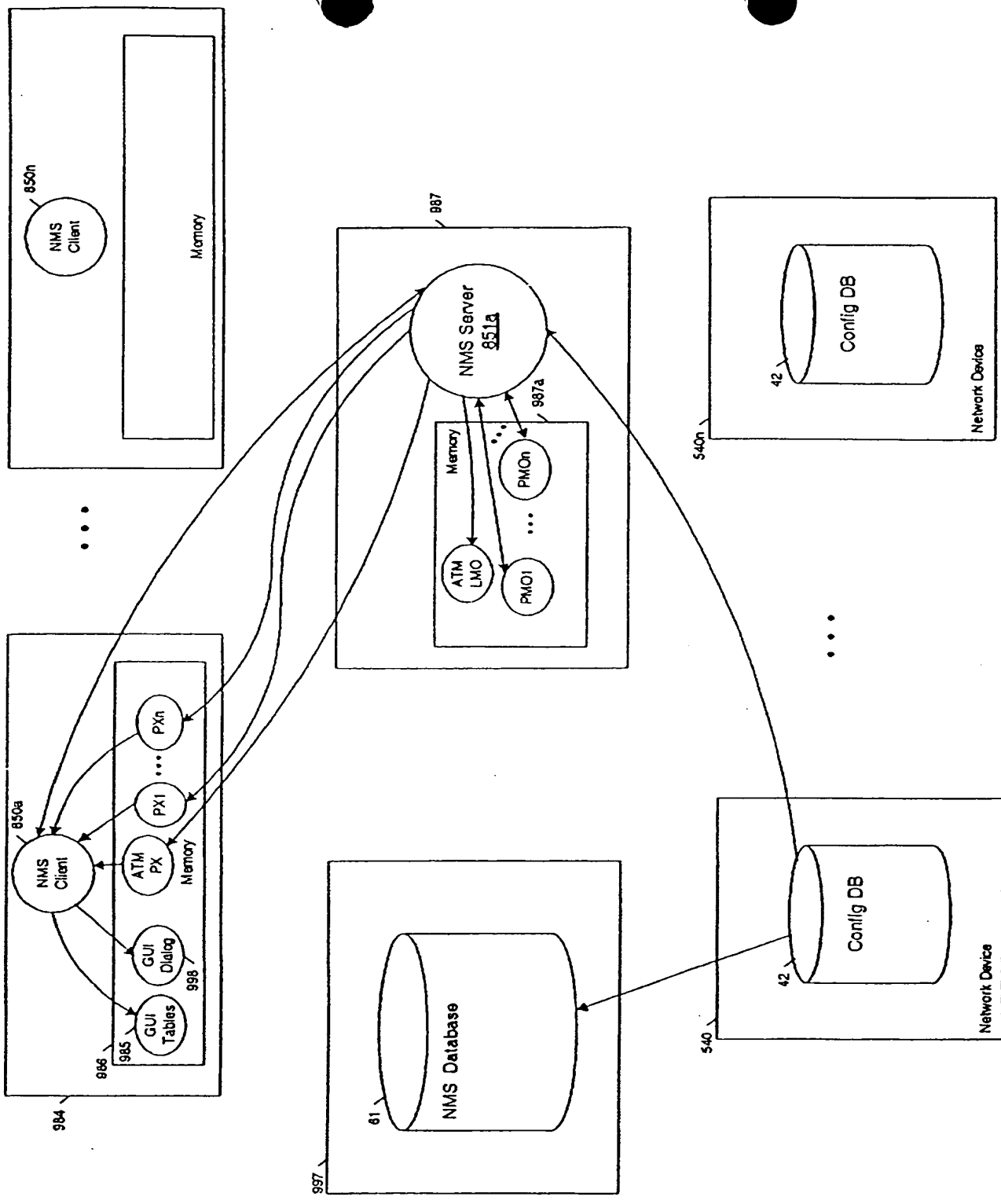


Fig. 59

Fig. 60a

Managed Device Table

| PID | A1 | ... | An |
|-----|----|-----|----|
| 1   |    |     |    |

983b points to the first row. 983 points to the header row. 983a points to the last column.

Fig. 60b

Chassis Table

| PID | A1 | ... | An | Managed Device PID |
|-----|----|-----|----|--------------------|
| 1   |    |     |    | 1                  |
| ⋮   | ⋮  | ⋮   | ⋮  | ⋮                  |

988b points to the first column. 988c points to the header row. 988 points to the last column. 988a points to the last row.

Fig. 60c

Shelf Table

| PID | A1 | ... | An | Chassis PID |
|-----|----|-----|----|-------------|
| 3   |    |     |    | 2           |
| 4   |    |     |    | 2           |
| ⋮   | ⋮  | ⋮   | ⋮  | ⋮           |
| 18  |    |     |    | 2           |

989a points to the first column. 989 points to the header row. 989b points to the last column.

Fig. 60d

Slot Table

| PID | A1 | ... | An | Shelf PID |
|-----|----|-----|----|-----------|
| 20  |    |     |    | 3         |
| 21  |    |     |    | 3         |
| ⋮   | ⋮  | ⋮   | ⋮  | ⋮         |
| 116 |    |     |    | 18        |

990a points to the first column. 990 points to the header row. 990b points to the last column. 990c points to the second row. 990d points to the last row.

CARD TABLE

| 47a | 47b |          | 47c         |          |
|-----|-----|----------|-------------|----------|
|     | PID | CWD TYPE | VERSION NO. | SLOT PID |
|     | 120 | 0XF002   | 3           | 20       |
|     | 121 | 0XF002   | 4           | 21       |
|     | ... | ...      | ...         | ...      |
|     | 124 | 0X6002   | 1           | 24       |
|     | ... | ...      | ...         | ...      |
|     | 131 | 0XF002   | 1           | 31       |
|     | ... | ...      | ...         | ...      |

FIG. 60e

# PORT TABLE

| 49a | 49b   |           | 49c         |          |
|-----|-------|-----------|-------------|----------|
|     | PID   | PORT TYPE | VERSION NO. | CARD PID |
|     | ...   |           |             | ...      |
| 300 | 00620 | 1         | 20          |          |
| 301 | 00620 | 1         | 20          |          |
| 302 | 00620 | 1         | 20          |          |
| 303 | 00620 | 1         | 20          |          |
| 304 | 00820 | 1         | 20          |          |
| :   | :     | :         | :           | :        |
| 400 | 00620 | 1         | 39          |          |
| :   | :     | :         | :           | :        |

FIG. 60f

FIG. 60g

SONET Path Table 600

| 600a | 600b | Path<br>LID | Port<br>PID | Time Slot | # of<br>Time<br>Slots | ... |
|------|------|-------------|-------------|-----------|-----------------------|-----|
|      |      | 901         | 304         | 4         | 3                     |     |
|      |      | ...         | ...         | ...       | ...                   | ... |



FIG. 60h

Service EndPoint Table 76 "

The diagram shows a table with 7 columns and 3 rows. An arrow points from the label 'Service EndPoint Table 76 "' to the table. Labels 76a through 76f point to the following fields: 76a points to the SE LID field, 76b points to the Q # field, 76c points to the FC PID field, 76d points to the FC Slice PID field, 76e points to the FC Time Slot field, and 76f points to the Path LID field.

| SE LID | Q # | FC PID | FC Slice PID | FC Time Slot | Path LID | ... |
|--------|-----|--------|--------------|--------------|----------|-----|
| 3000   |     |        |              |              | 901      |     |
| ...    | ... | ...    | ...          | ...          | ...      | ... |



Fig. 60j

Virtual ATM IF Table

| 993a | LID  | A1 | ... | An | ATM IF LID | 993b | 993 |
|------|------|----|-----|----|------------|------|-----|
|      | 7489 |    |     |    | 5054       |      |     |
|      | ⋮    | ⋮  | ⋮   | ⋮  | ⋮          |      |     |

Fig. 60k

Virtual Connection Table

| 994a | LID | A1 | ... | An | Vir. ATM IF LID | 994b | 994 |
|------|-----|----|-----|----|-----------------|------|-----|
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮               |      |     |

Fig. 60L

Virtual Link Table

| 995a | LID | A1 | ... | An | Vir. Conn. LID | Cross-Conn. LID | 995b | 995c | 995 |
|------|-----|----|-----|----|----------------|-----------------|------|------|-----|
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮              | ⋮               |      |      |     |

Fig. 60m

Cross-Connect Table

| 996a | LID | A1 | ... | An | Vir. Link1 LID | Vir. Link2 LID | 996b | 996c | 996 |
|------|-----|----|-----|----|----------------|----------------|------|------|-----|
|      | ⋮   | ⋮  | ⋮   | ⋮  | ⋮              | ⋮              |      |      |     |

Fig. 61a

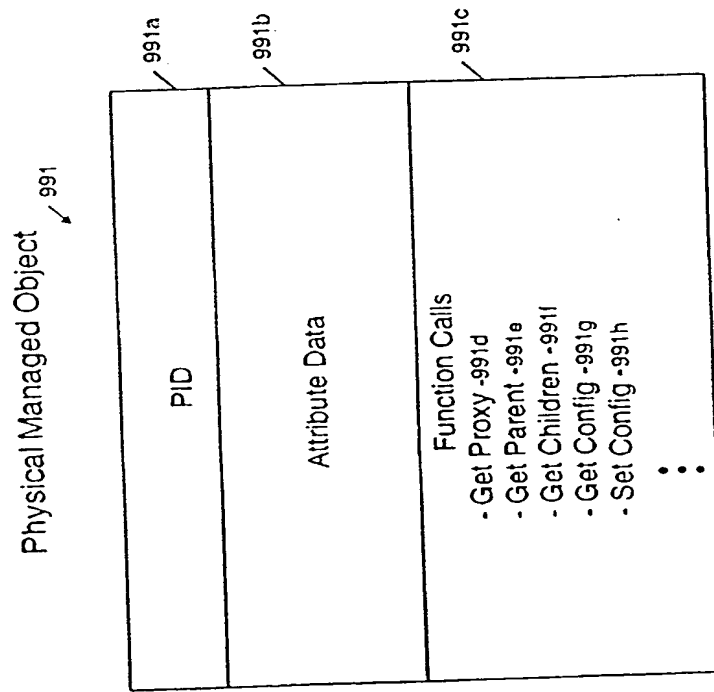
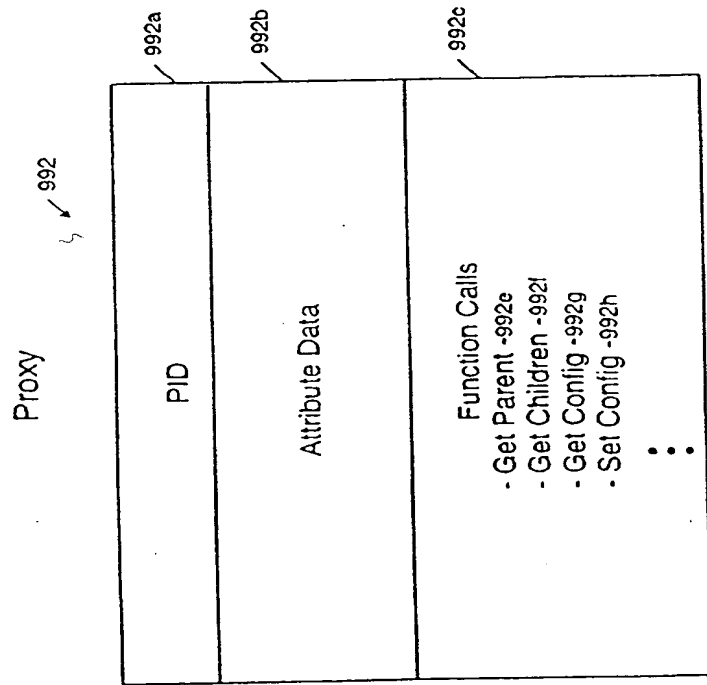
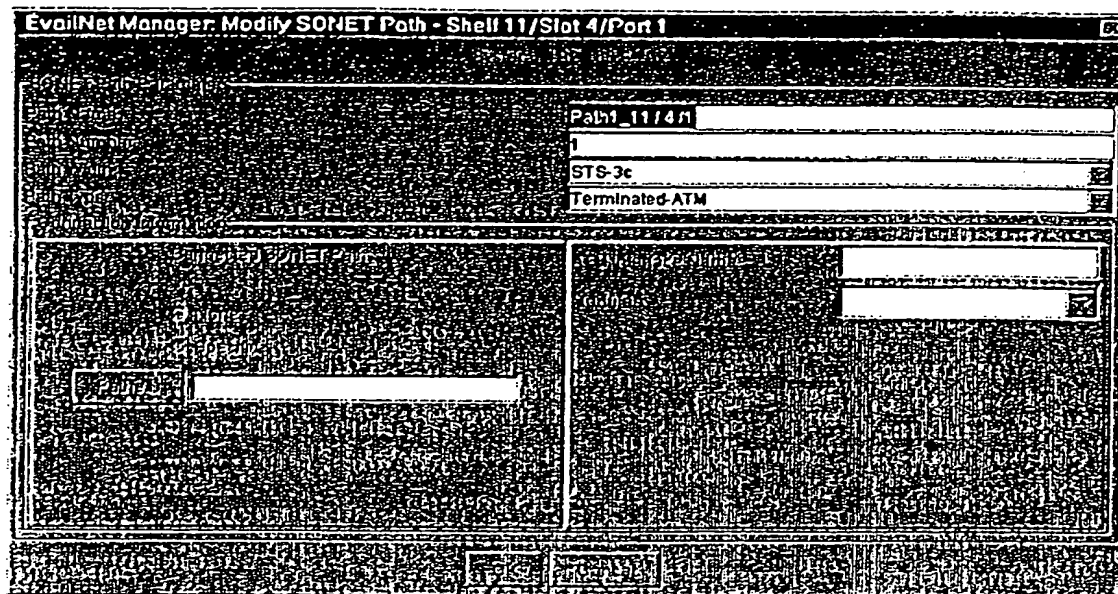


Fig. 61b





११४६

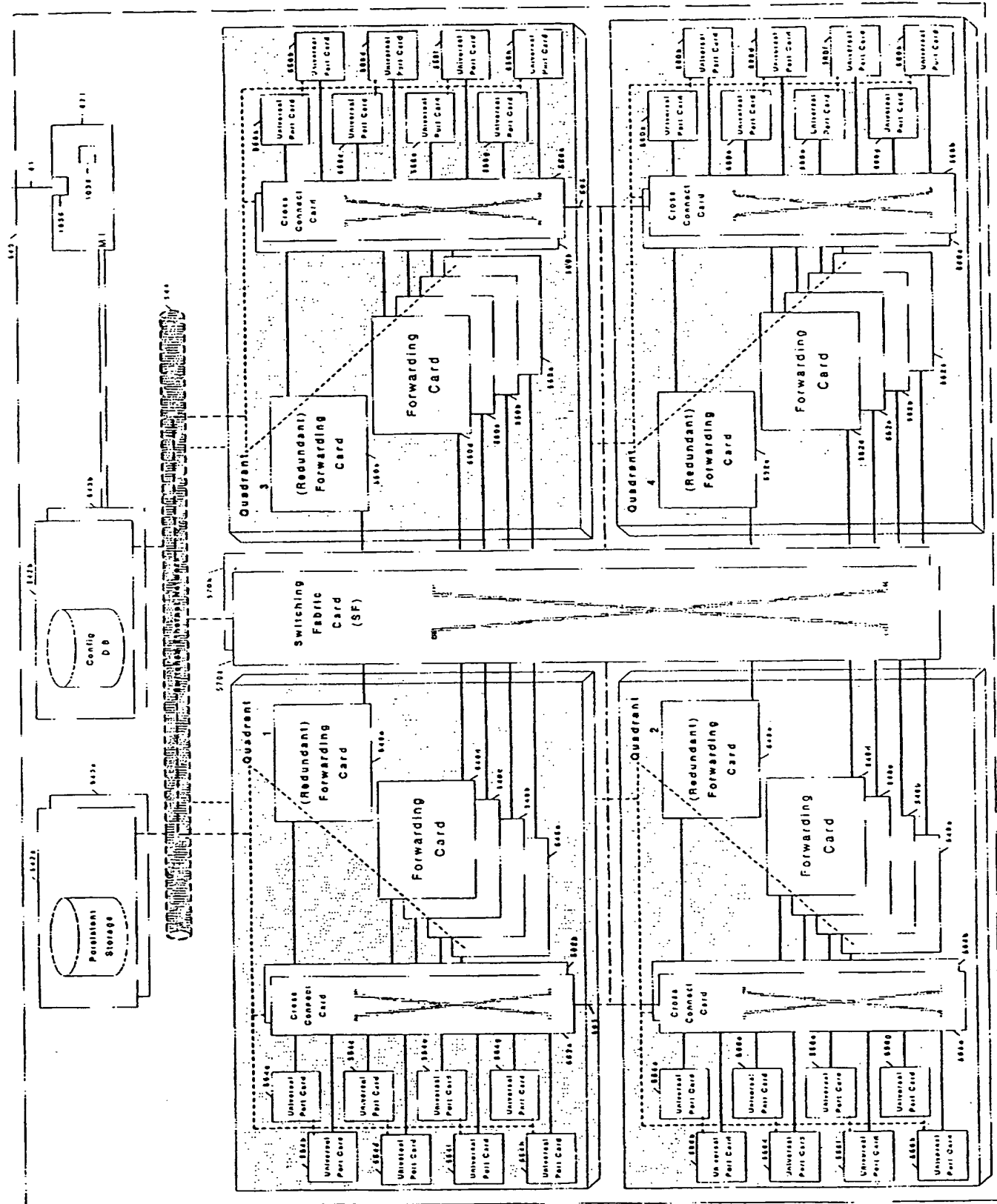
997a

Fig. 62

[illegible]

700070 92035260

FIG. 63



## Administration Managed Device Table

[illegible]



FIG. 65

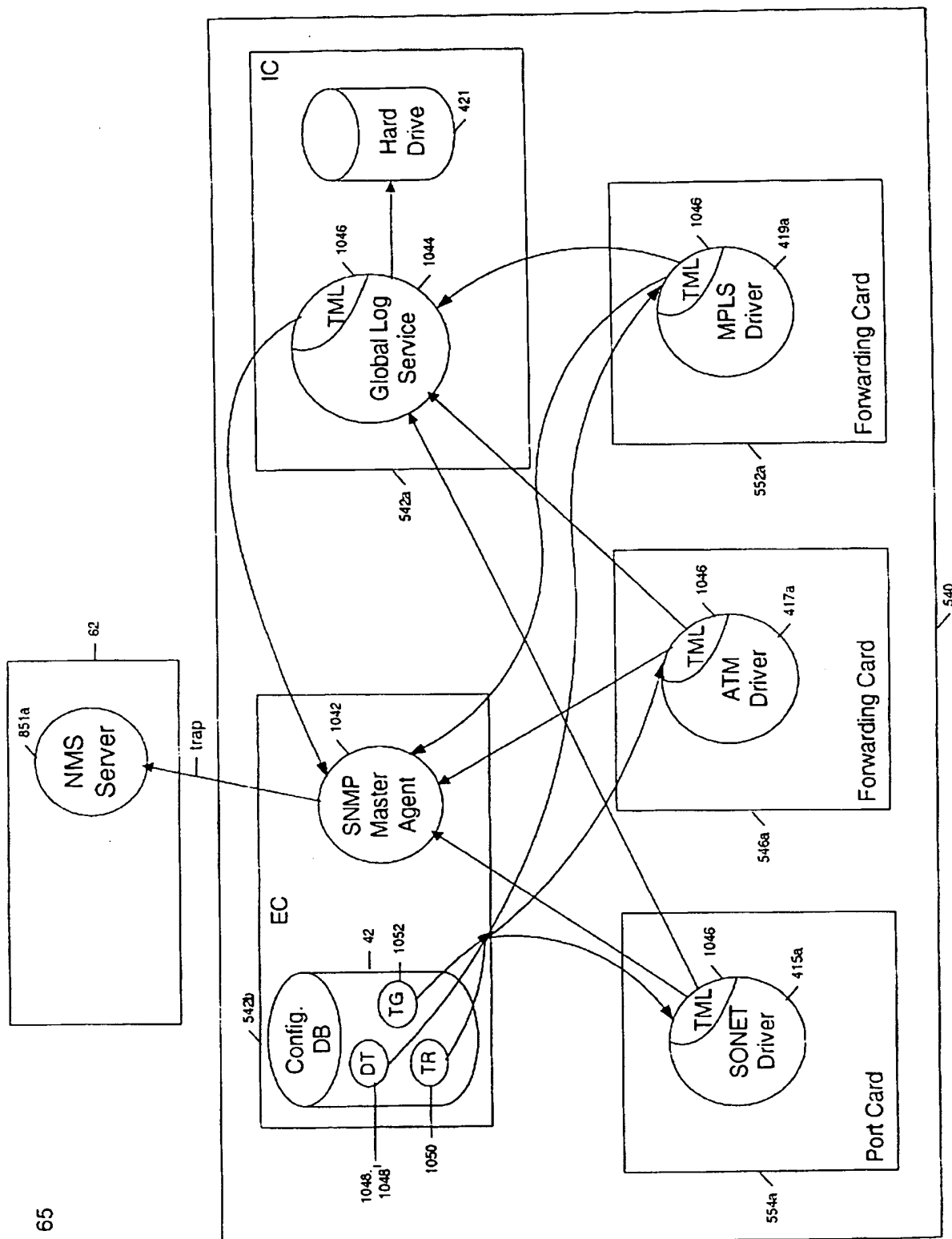


Fig. 65

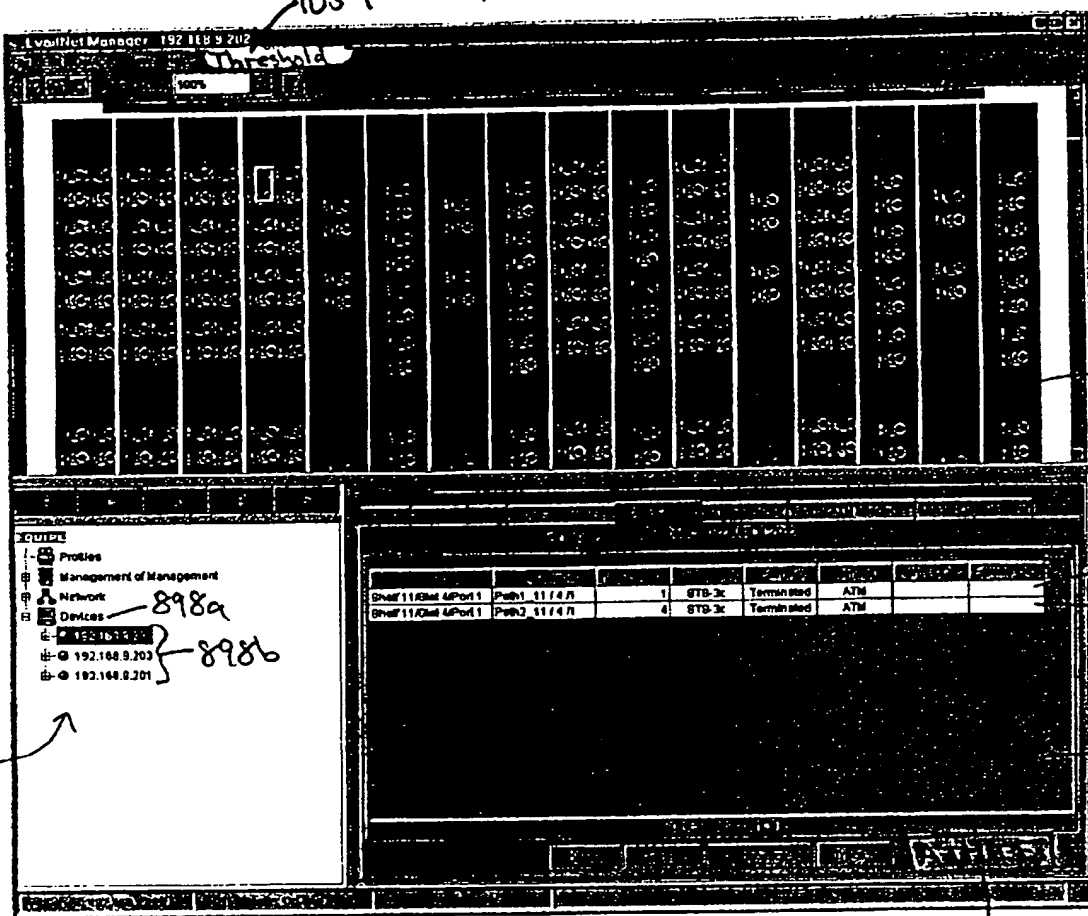


Fig. 66a

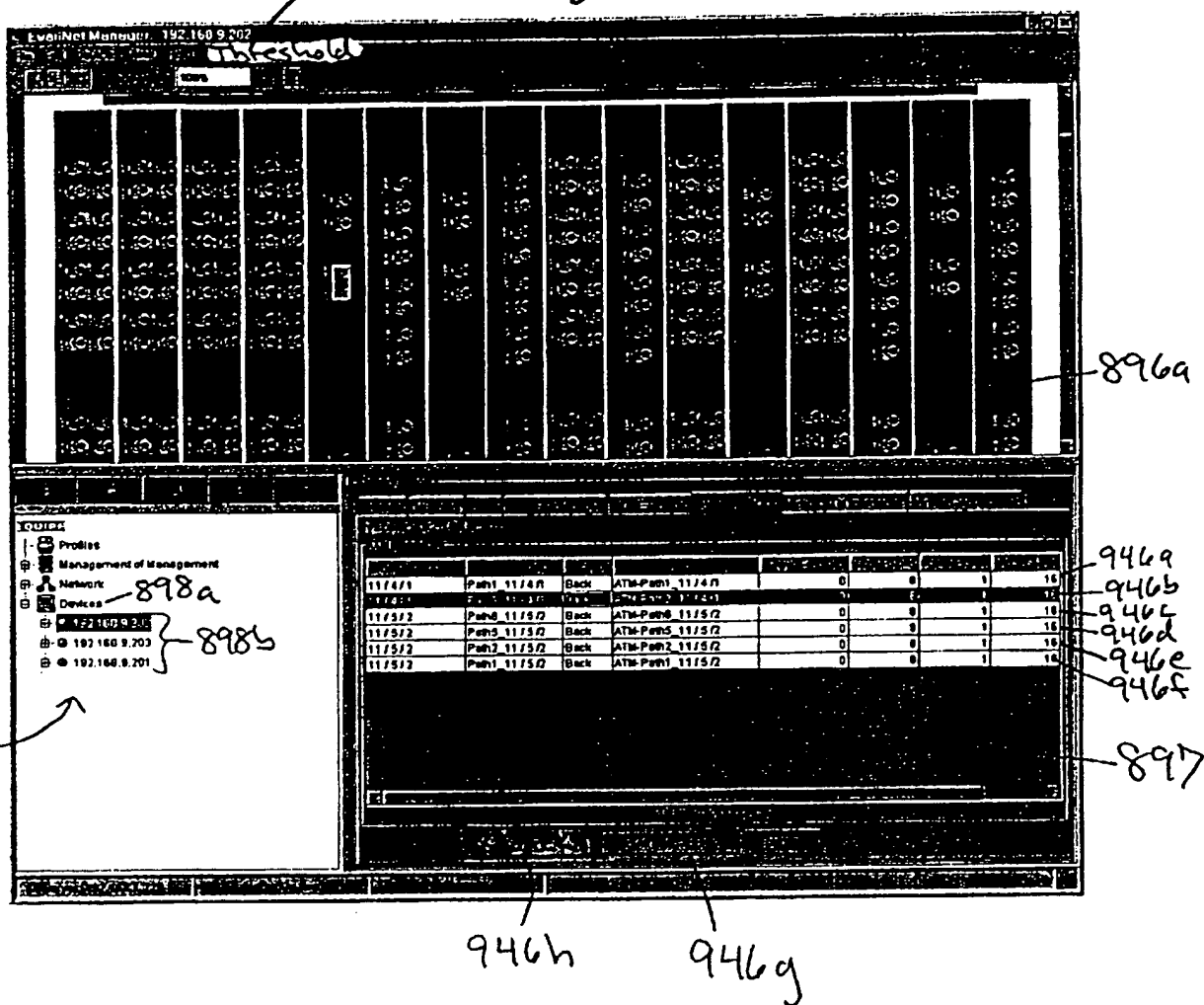


Fig. 66b

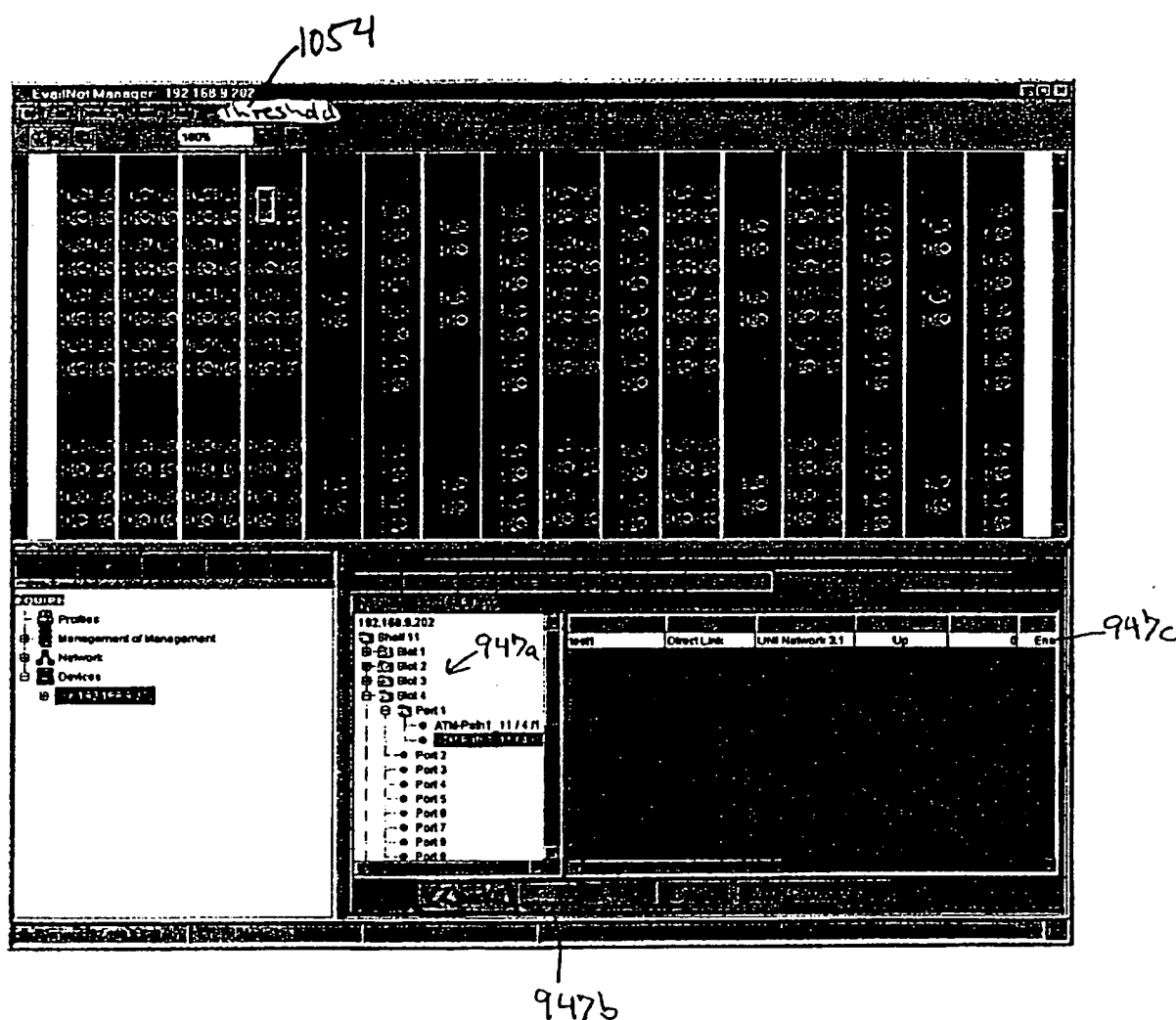
[illegible]

Fig. 66c

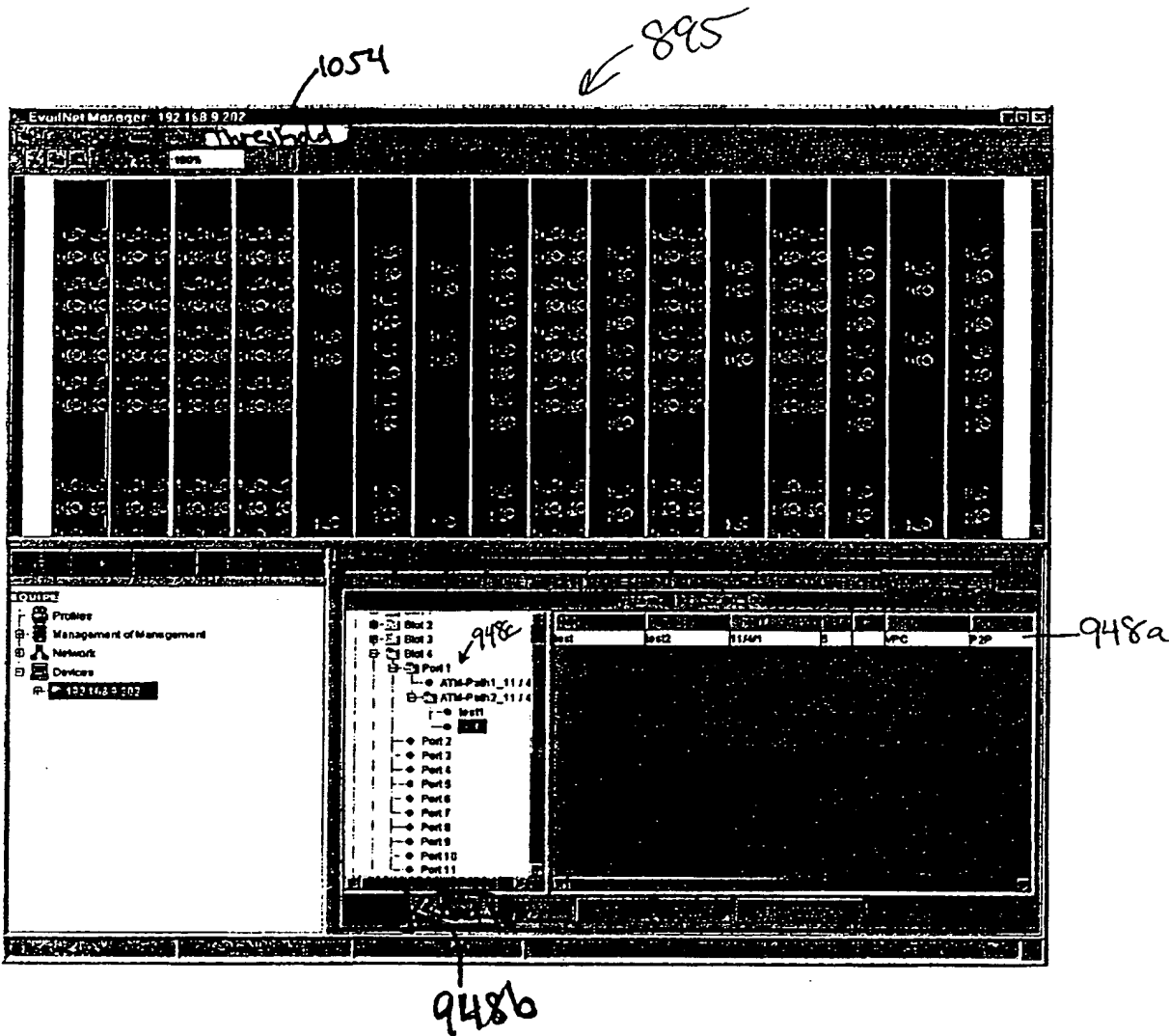


Fig. 66d

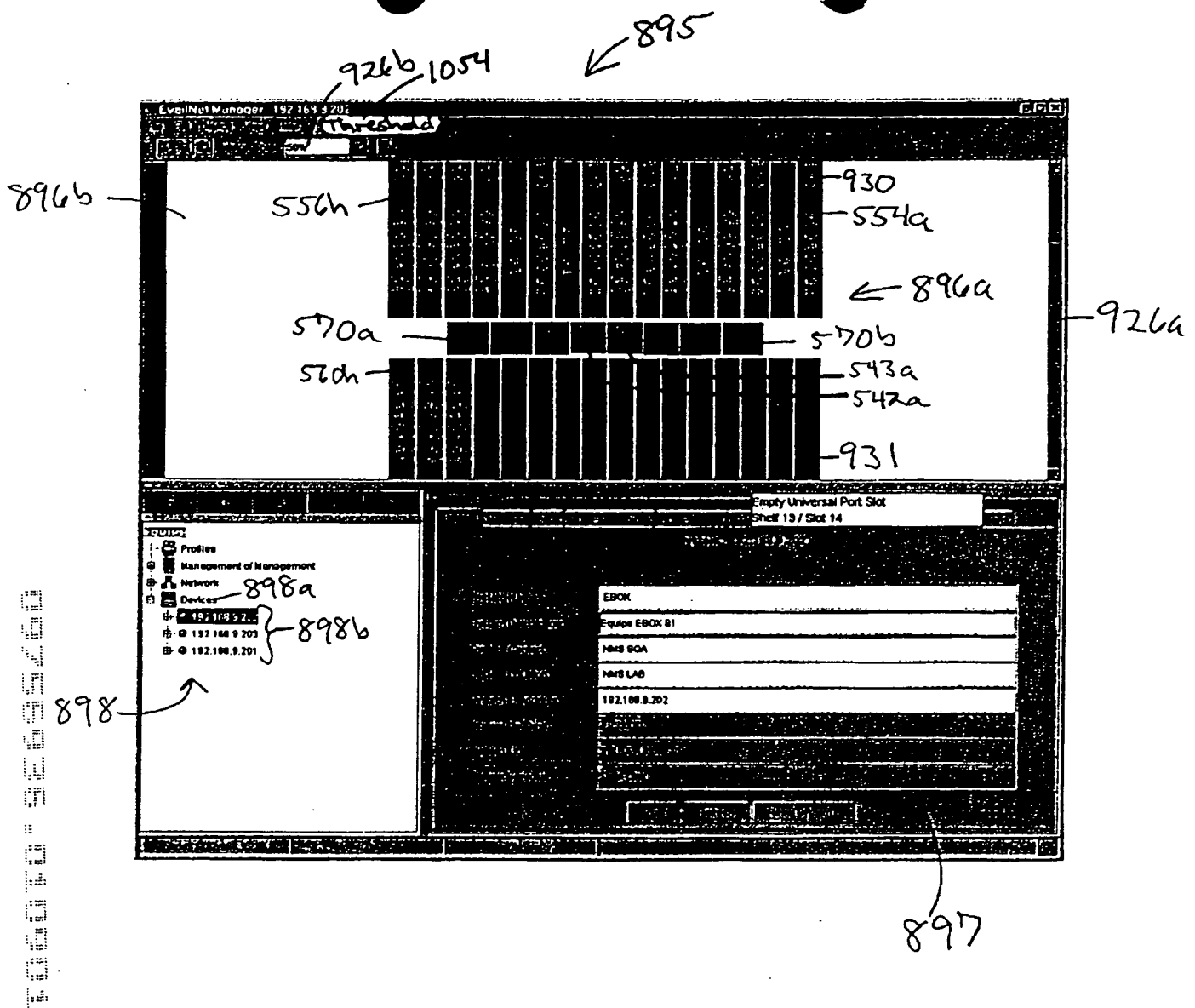


Fig. 67

1056  
↙

Threshold Dialog Box

|       |   |                                       |       |
|-------|---|---------------------------------------|-------|
| 1056a | Resource:                               | 1056j                                 | 1056f |
| 1056b | Attribute:                              |                                       |       |
| 1056c | Threshold Rule:                         | 1056k                                 | 1056g |
| 1056d | Sampling Frequency:                     |                                       |       |
| 1056d | Action:                                 | 1056L                                 | 1056h |
|       | 1056o <input type="checkbox"/> Log      | 1056m                                 | 1056i |
|       | 1056n <input type="checkbox"/> NMS      |                                       |       |
|       | 1056p <input type="button" value="OK"/> | <input type="button" value="Cancel"/> |       |

1056a-Resource:

1056b-Attribute:

1056c-Threshold Rule:

1056d-Sampling Frequency:

1056d-Action:

1056o-Log

1056n-NMS

1056p-OK

Cancel

1056j

1056k

1056L

1056m

1056f

1056g

1056h

1056i

Fig. 68

### Dynamic Threshold Table

1048

|       | 1048a<br>Resource ID | 1048c<br>Attribute             | 1048d<br>Sampling Freq. | 1048e<br>Action | 1048f<br>Rule   |
|-------|----------------------|--------------------------------|-------------------------|-----------------|---|
| 1048g | 901                  | Unavailable Seconds (Path end) | 15 min                  | Log             | if attribute > 10   |
|       | 901                  | Path Errors (path end)         | 15 min                  | trap            | if attribute <5 or >10  |
|       | 901                  | Path Errors (path end)         | 5 min                   | Log & trap      | if attribute <5 or >10  |
|       | ⋮                    | ⋮                              | ⋮                       | ⋮               | ⋮   |
|       | 5054                 | failed call attempts           | 10 min                  | trap            | if attribute >8 between 8:00am-7:00pm or >2 between 7:00pm-8:00am |
| 1048h | 5054                 | hcs errors                     | 12 min                  | trap            | if attribute >13  |
|       | ⋮                    | ⋮                              | ⋮                       | ⋮               | ⋮   |
|       | 7312                 | Rx Traffic                     | 1 hour                  | trap            | if attribute <4   |
|       | 7312                 | Tx Traffic                     | 1 hour                  | trap            | if attribute =Ø   |
|       | ⋮                    | ⋮                              | ⋮                       | ⋮               | ⋮   |

[illegible]



1048

Dynamic Threshold Table

| 1048a' Thr. Group LID | 1048b' Resource | 1048c' Attribute               | 1048d' Sampling Freq. | 1048e' Action | 1048f' Rule   |
|-----------------------|-----------------|--------------------------------|-----------------------|---------------|---|
|                       | SONET Path      | Unavailable Seconds (Path end) | 15 min                | Log           | if attribute > 10   |
| 8312                  | SONET Path      | Path Errors (Path end)         | 15 min                | trap          | if attribute <5 or >10  |
| 8312                  | SONET Path      | Path Errors (far end)          | 5 min                 | Log & trap    | if attribute <5 or >10  |
| •<br>•<br>•           | •<br>•<br>•     | •<br>•<br>•                    | •<br>•<br>•           | •<br>•<br>•   | •<br>•<br>•   |
| 8433                  | ATM If          | failed call attempts           | 10 min                | trap          | if attribute >8 between 8:00am-7:00pm or >2 between 7:00pm-8:00am |
| 8433                  | ATM If          | hcs errors                     | 12 min                | trap          | if attribute >13  |
| •<br>•<br>•           | •<br>•<br>•     | •<br>•<br>•                    | •<br>•<br>•           | •<br>•<br>•   | •<br>•<br>•   |
| 8542                  | Virtual Conn.   | Rx Traffic                     | 1 hour                | trap          | if attribute <4   |
| 8542                  | Virtual Conn.   | Tx Traffic                     | 1 hour                | trap          | if attribute =0   |
| •<br>•<br>•           | •<br>•<br>•     | •<br>•<br>•                    | •<br>•<br>•           | •<br>•<br>•   | •<br>•<br>•   |

Fig. 69a

Fig. 69b

1052

Threshold Group Table

1052a

| Resource ID | Threshold Group LID |
|-------------|---------------------|
| 901         | 8312                |
| 902         | 8313                |
| 903         | 8312                |
| ⋮           | ⋮                   |
| 5054        | 8433                |
| ⋮           | ⋮                   |
| 7312        | 8542                |

1052b

FIG. 69b

Fig. 70a

Dynamic Threshold Table

| 1048a <sup>11</sup> | 1048b <sup>11</sup> | 1048c <sup>11</sup>            | 1048d <sup>11</sup> | 1048e <sup>11</sup> | 1048f <sup>11</sup> | 1048g <sup>11</sup> | 1048h <sup>11</sup> | 1048i <sup>11</sup> | 1048j <sup>11</sup> | 1048k <sup>11</sup> | 1048l <sup>11</sup> | 1048m <sup>11</sup> | 1048n <sup>11</sup> |
|---------------------|---------------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Thr. Group LID      | Resource            | Attribute                      | Sampling Freq.      | Action              | Rule LID            | Variable a          | Variable b          | Variable c          | Variable d          | Variable e          | Variable f          | ...                 | Variable n          |
| 8312                | SONET Path          | Unavailable Seconds (Path end) | 15 min              | Log                 | 9421                | 10                  |                     |                     |                     |                     |                     |                     |                     |
| 8312                | SONET Path          | Path Errors (Path end)         | 15 min              | trap                | 9422                | 5                   | 10                  |                     |                     |                     |                     |                     |                     |
| 8312                | SONET Path          | Path Errors (far end)          | 5 min               | Log & trap          | 9422                | 5                   | 10                  |                     |                     |                     |                     |                     |                     |
| ...                 | ...                 | ...                            | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 |
| 8433                | ATM If              | failed call attempts           | 10 min              | trap                | 9423                | 8                   | 8:00am              | 7:00pm              | 2                   | 7:00pm              | 8:00am              |                     |                     |
| 8433                | ATM If              | hcs errors                     | 12 min              | trap                | 9421                | 13                  |                     |                     |                     |                     |                     |                     |                     |
| ...                 | ...                 | ...                            | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 |
| 8542                | Virtual Conn.       | Rx Traffic                     | 1 hour              | trap                | 9424                | 4                   |                     |                     |                     |                     |                     |                     |                     |
| 8542                | Virtual Conn.       | Tx Traffic                     | 1 hour              | trap                | 9425                |                     |                     |                     |                     |                     |                     |                     |                     |
| ...                 | ...                 | ...                            | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 | ...                 |

1048u<sup>11</sup>1048v<sup>11</sup>1048<sup>11</sup>

Fig. 70b

1050

Threshold Rule Table

|       |          |  |       |
|-------|----------|--|-------|
| 1050a | Rule LID | Expression   | 1050b |
| 1050c | 9421     | if attribute >a                                      |       |
|       | 9422     | if attribute <a or >b                                |       |
|       | 9423     | if attribute > a<br>between b-c or >d<br>between e-f |       |
|       | 9424     | if attribute <a                                      |       |
|       | 9425     | if attribute =0                                      |       |
|       | 9426     | RMON   |       |
|       | 9427     | FOE  |       |
|       | 9428     | if attribute <a<br>go to rule LID b                  |       |
|       | ⋮        | ⋮  |       |

F00756936-0406904



Fig. 72a

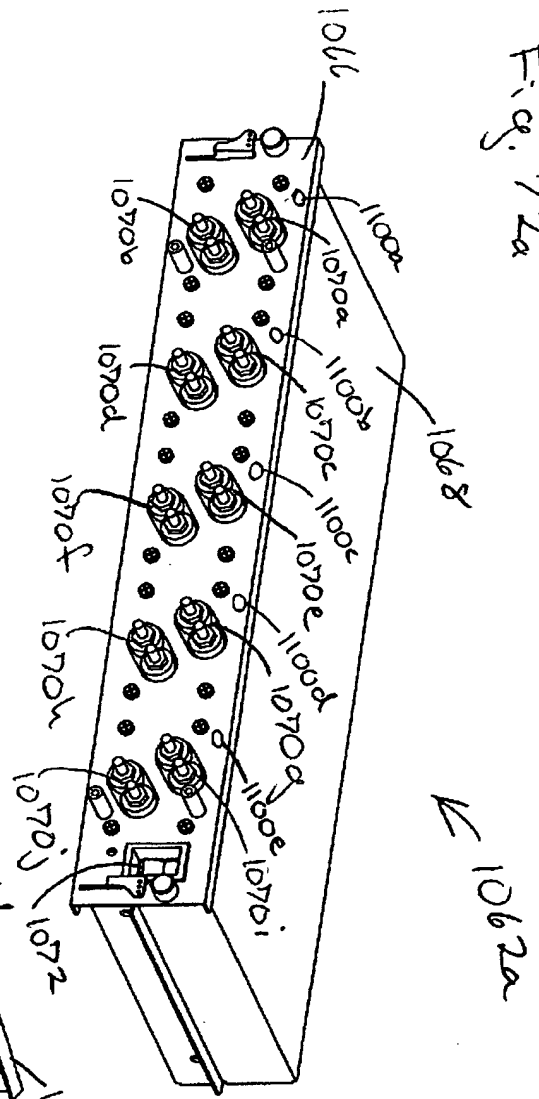


Fig. 72b

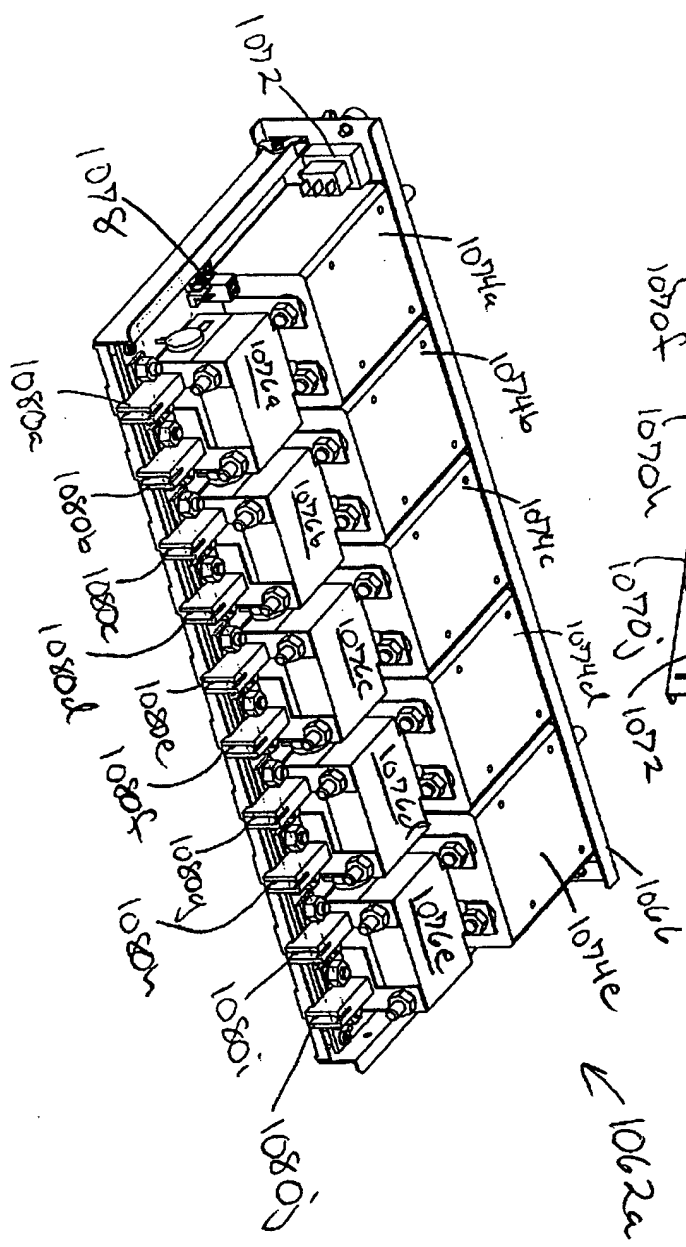
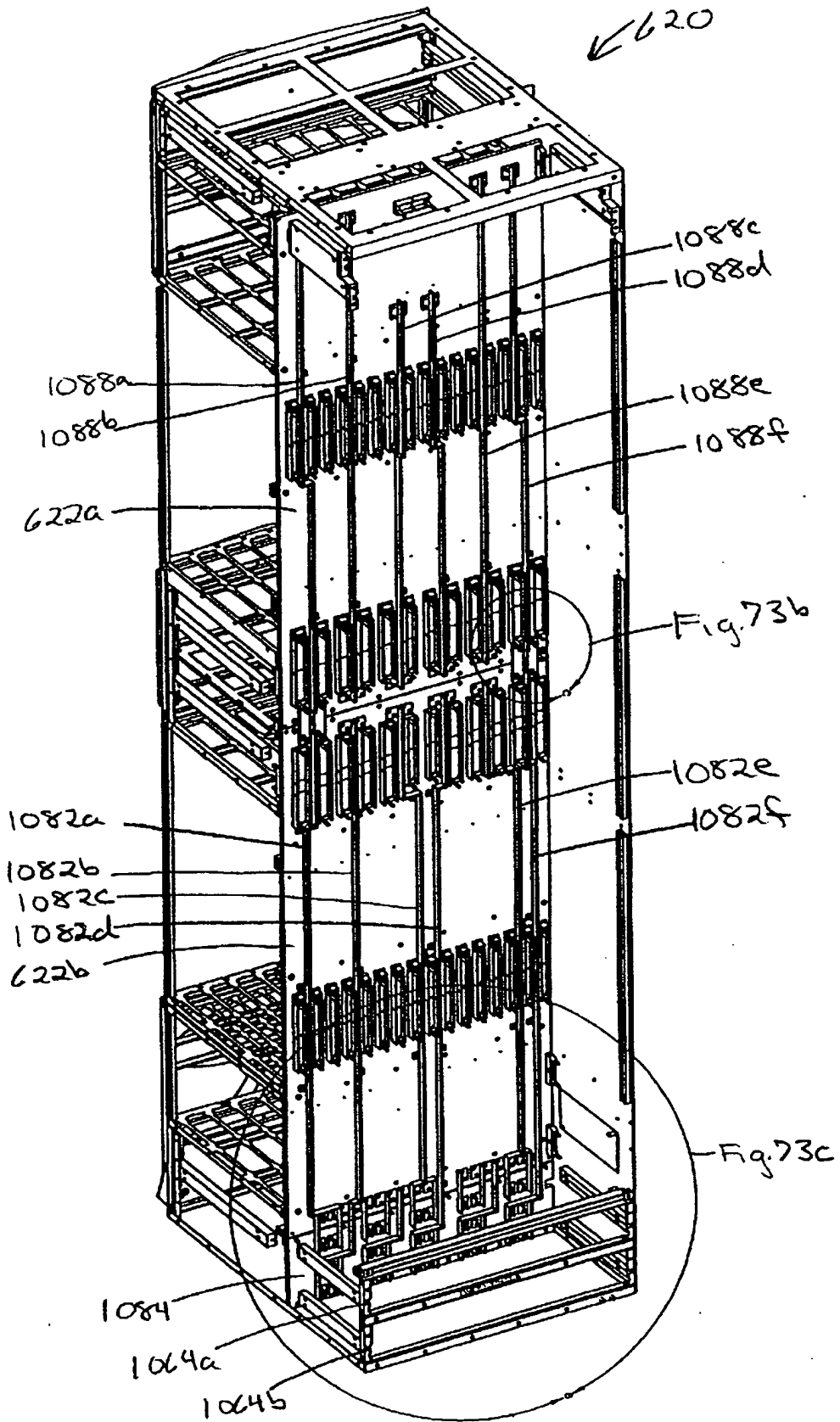


Fig. 73a



Rear View

00756936-040004

Fig. 73b

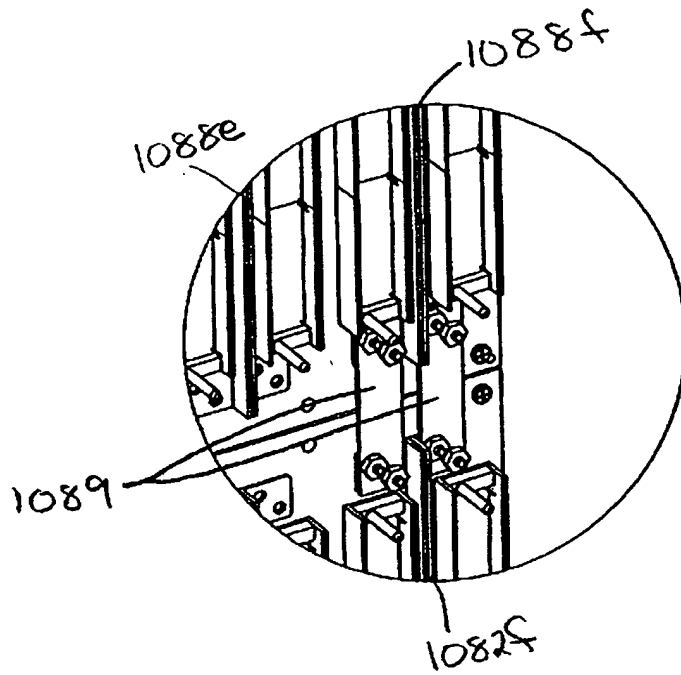
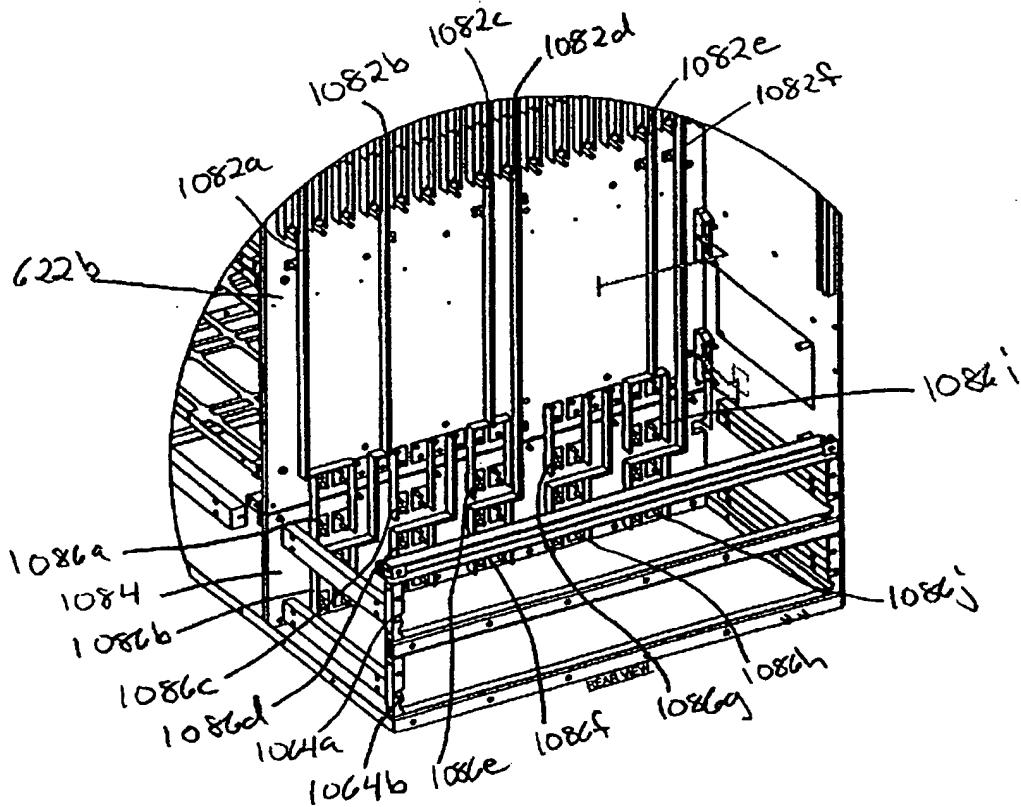


Fig. 73c



1097556036-040004